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Decimal Classification

and

Relativ Index

for libraries, clippings, notes, etc.

Sixth edition

By

Melvil Dewey, A. M. (*Amherst*)

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1899

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CONTENTS

	Page
EXPLANATION	6
INTRODUCTION	
Description	7–20
Origin and growth	7
Extent of use	8
What is the system?	8
Decimal form	9
Best known decimal form	9
Relativ Subject Index	10–12
What the Index includes	12
Explanation of tables	12
Choice and arrangement of heads	13
Sequence of allied subjects	13
Co-ordination	13
New subjects	14
Catch titles	14
Form distinctions	14
Minute classification	15
Mnemonics	16–17
Decimalism	17–19
Sizes on shelves	19
Catalogs	20–21
Name catalog	20
Shelf-list	20
Subject catalog	20
Dictionary catalog	21
Advantages	21–24
Shelves	21
Shelf-list	21
Accession book	22
Pamflets	22
Sale duplicates	22
Charging system	22
Subject references	23
Recataloging	23
Adaptability	23
Arabic numerals	23
Endowment of special departments	24
Summary	24

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CONTENTS

	Page
EXPLANATION	6
INTRODUCTION	
Description	7–20
Origin and growth	7
Extent of use	8
What is the system?	8
Decimal form	9
Best known decimal form	9
Relativ Subject Index	10–12
What the Index includes	12
Explanation of tables	12
Choice and arrangement of heads	13
Sequence of allied subjects	13
Co-ordination	13
New subjects	14
Catch titles	14
Form distinctions	14
Minute classification	15
Mnemonics	16–17
Decimalism	17–19
Sizes on shelves	19
Catalogs	20–21
Name catalog	20
Shelf-list	20
Subject catalog	20
Dictionary catalog	21
Advantages	21–24
Shelves	21
Shelf-list	21
Accession book	22
Pamflets	22
Sale duplicates	22
Charging system	22
Subject references	23
Recataloging	23
Adaptability	23
Arabic numerals	23
Endowment of special departments	24
Summary	24

Page

Suggestions to users 25–31
Plan of tables 25
" Index 25
Numeration 25
Familiarity with classification 25
How to find subject of book 26
Assigning class numbers 26–28
Number of figures used in class numbers . . . 28
Building numbers 29
Book numbers 30
Variations practicable 31–37
Cautions 31
Letter notations for changes 32–35
Fiction and juvenils 33
Biografy 33
Travel 34
Parallel libraries 34
Combining language and literature 34
Reference library 34
Contractions for specialists 35
Alfabet or chronology for final subdivisions . . . 35
Broken order 36
Pro and con division of topics 37
Other uses 37–39
Bookstores 38
Scrap books 38
Index rerums 38
Topical indexes 39
Acknowledgments 40–41

TABLES AND INDEX

First summary, the ten main Classes	1	page
Second " the hundred main Divisions	1	"
Third " the thousand Sections	10	pages
Tables of the Sub-sections of General works	7	"
" " " Philosophy	10	"
" " " Religion	18	"
" " " Sociology	20	"
" " " Philology	6	"
" " " Natural science	43	"
" " " Useful arts	35	"
" " " Fine arts	16	"
" " " Literature	42	"
" " " History	25	"
	Page	
Explanation of Index	405–406	
Relativ Subject Index	407–576	
Alphabetical table of topics divided geographically	577–9	
Alphabetical table of form divisions	580	
Alphabetical table of languages	580–581	
Alphabetical table of philological divisions	582–583	
Alphabetical table of literatures	584–5	
Supplement to Index	587–594	

EXPLANATION

The field of knowledge is divided into nine main classes and these are numbered by the digits, 1 to 9. Cyclopedias, periodicals, etc., so general in character as to belong to *no* one of these classes are marked nought, and form a tenth class. Each class is similarly separated into 9 divisions, general works belonging to *no* division having nought in place of the division number. Divisions are similarly divided into 9 sections and the process is repeated as often as necessary. Thus 512 means Class 5 (Natural Science), Division 1 (Mathematics), Section 2 (Algebra), and every Algebra is numbered 512.

The books on the shelves and the cards in the subject catalog are arranged in simple numerical order, all class numbers being decimals. Since each subject has a definite number, it follows that all books on any subject must stand together. These tables show the order in which subjects follow one another. Thus 512 Algebra precedes 513 Geometry and follows 511 Arithmetic.

Summaries. The first summary shows the ten Classes into which all topics are divided. The second summary shows the nine Divisions of each of the ten classes, and is useful as a bird's-eye view of the whole scheme on a single page. Then follow ten pages, one for each class, showing the nine Sections into which each of the nine divisions of each class are divided. These pages are to be used for a synoptic view on a single page of the scope of each class.

Sub-sections. Following these three summaries is the complete classification, which repeats, in proper order, all the classes, divisions, and sections with all the sub-sections given under each section. Synonymous terms, examples, brief notes, dates, and various catch-words are often added to the simple heads for the convenience of the user, who thus gets a fuller and clearer idea of the field which each number covers. Therefore all references to numbers should be looked up in the **full tables of sub-sections**; never in the Summaries, which are really only a table of contents of the Complete Tables.

Index. After the tables is an index, in which all the heads of the tables are arranged in one simple alphabet, with the class number of each referring to its exact place in the preceding tables. This index includes also, as far as they have been found, all the synonyms or alternative names for the heads, and many other entries that seemed likely to help a reader find readily the subject sought. Though the user knows just where to turn to his subject in the tables, by first consulting the index he may be sent to other allied subjects, where he will find valuable matter which he would otherwise overlook.

Full explanations. Detailed illustrations and rules for the many applications of this system and full explanations of its mnemonic and other important features will be found in the introduction to the full edition from which the "Tables and Index" are reprinted.

INTRODUCTION

[The simplified spellings used are strongly recommended for general adoption by both the American and English Philological Associations, including nearly all prominent scholars in English now living.]

Origin and growth.— The plan of the following Classification and Index was developt early in 1873. It was the result of several months' study of library economy as found in some hundreds of books and pamflets, and in over 50 personal visits to libraries. In this study the author became convinced that the usefulness of these libraries might be greatly increast without added expenditure. Only a fraction of the good possible could be gotten from a library without catalogs, indexes, and aids, to tell librarians and readers what the collection containd on any given subject; yet, by the methods then used, this could be done satisfactorily only at a cost so great as to be prohibitiv to all but a few wealthy libraries. With rare exceptions, libraries were growing rapidly. Catalogs, made at great cost, became antiquated soon after being finisht. The methods used involvd frequent remarking and re-arrangement of the books and remaking of catalogs and indexes, as the only escape from a confusion that seriously crippled usefulness. In this repetition of work experience and skill of previous librarians were largely lost. The great need was a system which should enable each librarian to stand on the shoulders of his predecessors, and fully utilize their labors; which should make the work done to-day permanent, instead of something to be superseded within a few years, and therefore not worth doing in the best way; which should supply the best appliances, instead of leaving the young librarian not only to learn how to work, but to make all his own tools.

Seventeen years' practical use of the system here explaind proves that it will accomplish this result; for with its aid catalogs, shelf lists, indexes, and references, essential to this increast usefulness, can be made faster and cheaper than by any method not having its essential features, and, when done, are better and vastly more permanent.

Practical utility and economy are the keynotes of the entire system, and no theoretical refinement has been allowd to modify the scheme, if it would detract from its usefulness or add to its cost.

It was chiefly necessary to find a method that would index books and pamflets on the shelves, the cards of a catalog, clippings and notes of scrap-books and index rerums, references to all these items, and indeed any literary material in any form, as readily as an ordinary index guides

to the proper page of a bound book. This difficult problem has been solvd by using no reference marks except the simplest symbols known to the human mind — the Arabic numerals — and by aiding their simplicity with many practical mnemonic devices.

The system has been found on trial equally valuable for cataloging and indexing, and for numbering and arranging books and pamflets on the shelves. For notes on other uses, see p. 37.

When the first edition was published in 1876, 12 pages of tables containing the thousand sections were criticised as being altogether too elaborate for use even in a large library. As fast, however, as the Relativ Index with its remarkable powers became known, users askt for further subdivisions, and both tables and Index have steadily grown since it has been found so easy to gain the admitted great advantages of close classification, and yet avoid the old difficulties by means of the Relativ Index.

Extent of use.— The register of libraries which have actually adopted the system, though growing rapidly, is known to be very incomplete. Names are often added of libraries which have used the system for five or 10 years without our learning the fact. A careful registry is kept of the buyer of each classification printed, but we make no assumption that a library has adopted the system because it has ordered a copy of the book.

We print below a brief table showing the growth of the four editions. The nearest estimate possible gives from 200–300 libraries, besides a large number of private book owners and literary workers having the system in daily use.

		No. of pages				
Edition	Date	Preface, etc.	Tables	Index	Total	Copies printed
1	1876	12	12	18	42	1,000
2	1885	66	162	86	314	500
3	1888	4	227	185	416	500
4	1891	41	234	191	466	1,000

What is the system?— A Relativ Index[1] with a subject classification, so numberd or letterd that reference is compact, accurate, and quickly made, is the essential feature, and anything beyond this is merely the application of this plan with various helps and accessories.

[1]Tho the author is interested only in the usefulness of the system, not in questions of priority of its invention, extended investigation by others fails to show that this most important feature of the system — the relativ index, on which all else hinges — had ever before been used as here to index by a single reference the most diverse material. The relativ location had been used, but not in the present combination with the subject index, which gives it most of its value. The tables of classification, while adopting suggestions from many sources, are original in their system of arrangement and notation, and in many minor features. The decimal form and many mnemonic features of the system have not been found in earlier use, tho since their invention in 1873, this as well as the subject index and other features have been very frequently copied, often with, but oftener without, acknowledgment of their source. But the author is glad to find this system, which has cost him so much labor, doing good service even for those who neglect to mention where they found so valuable a labor-saving literary tool.

Any subject classification with a *relativ* index in which the one entry indexes a book in the ordinary way, and at the same time indexes shelves, cards, clippings, or any other literary material, is a form of this system.

Decimal form of the system.—The author has devised and experimented with several different plans of classification and notation by means of numbers, letters, and combined numbers and letters, with bases of 26, 35, (the latter accepted by Mr Cutter and now most admirably workt out in his Boston Athenæum classification), 50, 100, and 150, yet none have seemd good enough to warrant fully working out and publishing details, except that here printed, based on Arabic numerals used decimally. The wide adoption of this system is largely due to the fact that no one ever complains that a classification is too simple, while there is great danger of the complaint of complexity. The simplicity of the decimal form has so commended itself that many think of it as the only form, tho obviously it would be just as much the "relativ index system" if the classification were wholly markt by letters.

The Subject Index is the simplest application of the symbols next in simplicity to 1, 2; 3; viz. a, b, c. This use of the simplest two sets of symbols known, with their common meanings, has given the system its reputation as the simplest yet proposed.

Best known decimal form.—The decimal form means simply that the heads are groupt and numberd with the common arithmetical figures used decimally. As the system here printed is the only decimal form that has thus far been carefully elaborated and publisht, it is commonly thought and spoken of as if it alone were the only possible form of the author's original plan; tho obviously an infinite variety of "relativ index systems" in decimal form could be made by filling the outline with different heads, or with the same heads in different order.

To make out a new set of heads would involve labor and cost vastly beyond the dreams of any person who has not tried exactly this work. The time actually spent on the tables as here printed, by various competent workers, would aggregate several years and cost thousands of dollars. The uniform and urgent advice of the experienced is to adopt a poorer scheme already made rather than undertake so herculean a labor. When done, the maker may possibly be better suited with it, but it is doubtful if many others will be. It is vastly wiser for any man whose time is of value, to use it in something more practically useful to himself and his library than in trying to construct a "satisfactory" scheme of classification. No one yet ever wholly suited himself or any one else, and probably no one ever will. By adopting this scheme already workt out he saves much time and money, gains the immense advantage of using a system in common with hundreds of

others, so that he may utilize their labors and investigations and share with them the economies of coöperation.

Relativ Subject Index.—The alfabetical Index, the most important feature of the system, is as complete as could be made by combining the headings of leading catalogs and bibliografies, and adding such as users of the system have found desirable in 17 years' experience. After all these efforts, new headings will still be needed, and will be added in each new edition.

The Index is designd to guide both in numbering and in finding books. In assigning numbers, the most specific head that will contain the book having been determind, reference to that head in the Index gives the class number which should be assignd. Conversely, in finding books on any given subject, reference to the Index gives the number under which they are to be sought on the shelves, in the shelf list, or in the subject catalog. Whenever a new subject comes up, it and its synonyms, with the class-number decided on, should be interlined in the Index, so that the classifier may be uniform with himself in future work.

The Index aims to give similar or synonymous words, and the same words in different connections, so that any person of intelligence will hardly fail to get the right number. A reader wishing to know something of the tariff looks under T, and, at a glance, finds 337 as its class-number. This guides him to the shelves, to all the books and pamflets, to the shelf catalog, to the subject catalog on cards, to the index of books charged at the loan desk, and, in short, in simple numerical order, thruout the whole library to anything bearing on his subject. If he turns to the tables, he will see that it means class 3, Sociology; division 3, Political economy; section 7, Protection and free trade; but the number alone is enough to classify the book or to find it, for either cataloger or reader. If he had lookt under P for protection, or F for free trade, or D for duties, or C for customs, or under any other leading word relating to his subject, he would have been referd to 337, or some one of its sub-divisions.

Had he lookt for "railroad" he would have found after it 16 separate entries, each preceded by a catchword indicating the phase of the subject in the scheme. A book on railroads may be a treatise on the desirability of government ownership, control, etc., and then is clearly a question of social science; or it may be a practical hand-book for an employe, explaining business methods of railroading, running trains, handling freight, etc., when it is as clearly one of the useful arts. The cataloger knows to which of these heads his book belongs, and the reader knows in which of its phases he wishes to examin the subject. Moreover, the 3 and 6 beginning the numbers indicate clearly the character of each class. But even if the significance of these figures were entirely disregarded, no confusion would result, for, on consulting either of the numbers in the catalog, in the scheme, or on the shelves, the difference would be clearly seen.

In other cases, it is more useful to keep the books on the same subject together, tho treated from different standpoints. A glance at the Index tells either reader or classifier which plan has been adopted for each case.

All topics printed in black-face type in the Index are further divided in the tables, where one may see the subheads. This saves reprinting all these subdivisions which would increase the bulk of the Index many-fold; e. g. if one having a book on "prison labor" looks in the Index for "Convict labor" or "Prison contracts," he finds at once its special number 331.5; but if, on the other hand, he thinks to look only for the general subject "Labor," he finds in black-face type the entry "Labor, political economy, 331," and turning to the tables he finds under 331 the subdivision "331.5, Convict labor," the exact topic in hand.

The greatest objection to a clast catalog has always been the impossibility of knowing just where to put a book in cataloging, and just where to look for it when it is again wanted. Different librarians, or the same librarian at different times, clast the same or similar books in widely different places. Where one man did all the work, and held his place for a long series of years, there was a certain degree of uniformity; but even then there was danger of looking at the same book from different standpoints, thus causing confusion. When the daily press is full of one phase of a subject, the tendency is strong to class all books on this particular subject from the current point of view; and next year, if a different side of this same subject is again before the public, there is the same tendency to class books from the new point of view, in this way separating books on the same and putting together books on different phases. But, fortunately, practical usefulness does not require that the ideas of this one or that one be followd, but only that books of the same character be always put in the same place, and that there be some means of knowing readily where that place is. The Relativ Index, with its catchwords, was designd and is found in use to meet both these requirements, for it insures that books on the same phase of any subject coming before the classifiers shall be assignd to the same place, and that any reader seeking these books shall be referd to that place. If this is done, all requirements of a good classification are fild. If it is not done, the system is a failure; for the only real test of any scheme is its helpfulness to workers in the library.

Some prominent opponents of clast catalogs admit that the Relativ Subject Index, in deciding where to class a book at first, and where to look for it ever afterwards, has removed their strongest objections. Certainly it would be impossible to make an Index more compact or more easy of reference.

This Index allows a great portion of the work of classification to be

done in advance by experts, thus securing, at the merest fraction of the usual cost, better and more uniform results than would be possible to the ordinary cataloger, and reducing the labor of classing a library to much narrower limits than ever before.

Each of these thousands of subjects has been carefully assignd its number, many of them after long consideration and consultation with specialists. No individual is sufficiently learned to class wisely books on all subjects and sciences; but botanists can assign all botanical subjects to the right number, mathematicians all mathematical topics, and thus the Index will in time become as accurate as the best scholarship of the day can make it. Even if the decision reacht were not the wisest possible, all practical purposes are servd, because, as each cataloger copies the number from the same index, all books on that subject will be placed together; and, as each reader gets his number from this same Index, he will go directly to the books he seeks.

What the Relativ Index includes.— Most names of countries, towns, animals, plants, etc. have been omitted, the Index containing only those which are in the tables; e. g. it cannot enumerate all the species of trilobites, but when the classifier has found from the proper reference books that Remopleurides is a trilobite, the index will send him to 565.39, and he can classify his monograf on that subject.

Tables.— The essential complement of the Subject Index is the tables of classification, so mapt out as to show in four ways — viz., by size of type, face of type, indention, and number of figures prefixt — the rank of each subject in the classification.

The field of knowledge is divided into nine main classes, numberd by the digits 1 to 9. Cyclopedias, periodicals, etc., so general in character as to belong to *none* of these classes, are markt *nought*, and form a tenth class; e. g. class 1 is the library of Philosophy; class 5 is the library of Science; class 9, of History, etc. These special classes or libraries are then considerd independently, and each one is separated again into nine special divisions of the main subject, numberd from 1 to 9, as were the classes, general works belonging to *no* division having *nought* in place of the division number. Thus 59 is the ninth division (Zoölogy) of the fifth class (Science). A third division is then made by separating each of these divisions into 10 sections, numberd in the same way with 0 and the nine digits; and this decimal subdivision is repeated, till it secures as many subsections as may be needed in any topic. Thus 513 is the third section (Geometry) of the first division (Mathematics) of the fifth class (Natural science). This number, giving class, division, section and sub-section, if any, is calld the classification or the class number, and is applied to every book and pamflet belonging to the library. All geometries are thus numberd 513, all mineralogies 549, and so thruout the library all books on any given subject bear the number of that subject in the scheme.

Where 0 occurs in a class number, it has its normal zero value. Thus a book numberd 510 is class 5, division 1, but *no* section; i. e. the book treats of division 51 (Mathematics) in general, and is limited to no one section, as is geometry, markt 513; 500 indicates a treatise on science in general, limited to no division. A naught occurring in the first place would in the same way show that the book is limited to no class; e. g. a general cyclopedia which treats of all nine classes.

Choice and arrangement of heads.—The selection and arrangement of the many thousand heads of the classification cannot be explaind in detail for want of space. In all the work, philosophical theory and accuracy have been made to yield to practical usefulness. The impossibility of making a satisfactory classification of all knowledge as preservd in books, has been appreciated from the first, and theoretical harmony and exactness have been repeatedly sacrificed to practical requirements.

Sequence of allied subjects.—Wherever practicable, heads have been so arranged that each subject is preceded and followd by the most nearly allied subjects, and thus added convenience is secured both in catalogs and on shelves; e. g. Building (690) follows Mechanic trades (680) at the end of Useful arts, and Architecture follows at the beginning of Fine arts.

The student of Biology (570) finds fossil life or Paleontology (560) before, and vegetable life or Botany (580) after, this followd in turn by animal life or Zoölogy (590), ending with Mammals (599); while Useful arts (600) begin with human Anatomy (611) under Medicine, thus giving a regular growth from the fossil plant thru the vegetable and animal kingdoms to the living man.

Co-ordination.—Theoretically, the division of every subject into just 10 heads is absurd. Practically, it is desirable that classification be as minute as possible, without use of added figures; and the decimal principle, on which our scheme hinges, allows 10 divisions as readily as a less number.

This principle has proved wholly satisfactory in practice, tho apparently destroying proper co-ordination in some places. The difficulty in such cases is entirely obviated by the use of another figure, giving nine sub-sections to any subject of sufficient importance to warrant closer classification. In history, where classification is made chiefly by countries, a single figure is added, as in the other classes, to give a tenfold geografical division, and a zero followd by another figure is added to give a division into periods.

As all history is by countries, and as minute geografical subdivisions are needed for travels, guide books, and various other uses, the rule is adopted always to use 0 before the time or period figure. The 0 shows that there is no further geografical division in that number, and that a period division is there introduced. This allows the use of

the same period division in various places, e. g. 942.05 England in time of the Tudors; 942.905 Wales under the Tudors; 942.7405 Yorkshire under the Tudors. As each figure added gives a tenfold division, any desired degree of minuteness may be secured in classing special subjects.

As in every scheme, many minor subjects are under general heads to which they do not strictly belong. In some cases, these heads are printed in a distinctiv type; e. g. 429 Anglo-Saxon, under English philology. The rule has been to assign these subjects to the most nearly allied heads, or where it was thought they would be most useful. The only alternativ was to omit them altogether. If any such omission occurs, it will be supplied as soon as discoverd, the intention being to provide a place in the tables for every known topic.

New subjects.—When any new topic arises, it is always closely related to some existing heads. If there be no blank space left for it, it is combined with the head nearest allied, and, if desired, by adding a decimal place abundant room is made for the new comer. The system is thus capable of unlimited expansion, and can never break down for lack of room for growth.

Catch-titles.—In naming headings, strict accuracy has often been sacrificed to brevity, for short familiar titles seemd more important than that the names given should express with fulness and exactness the character of all books catalogd under them. Many subjects, apparently omitted, will be found in the Index, assignd, with allied subjects, to a head which bears the name of the most important only. Reference to this Subject Index will decide at once many doubtful points.

Form distinctions.—The classification is mainly by *subject* or *content* regardless of form; but an additional form distinction for general treatises is found practically useful.

Thus, in Science there are many compends, dictionaries, essays, periodicals, and societies, treating of Science in general, and so having 0 for the division figure, but treating it under different forms, and, therefore, divided into sections according to this form: 501 for philosophy or theories of Science, 502 for compends, 503 for dictionaries. This treatment is as nearly as practicable uniform in all classes. Creasy's "Fifteen decisive battles" is 904, the first figure being 9, because the book is clearly history; the second figure 0, because limited to no division of class 9; and the third figure 4, because the book is a collection of essays.

These form distinctions are introduced at the beginning of the class because the number of general works is large, and these first numerals would otherwise be unused. They apply only to general treatises, which, without them, would have a class number ending in two naughts.

This form distinction is often used to subdivide general works on

divisions or even sections; e. g. under 510, works on mathematics in general are divided by form into 510.3, dictionaries of mathematics; 510.4, essays; 510.5, periodicals, etc., just as works on Science in general were divided. A dictionary of mathematics is 510.3, not 503, because every book belongs to the most specific head that will contain it; so 503 is limited to dictionaries or cyclopedias of science in general. Books treating of many subjects, such as general cyclopedias or periodicals, go in class 0, and are then divided by form into cyclopedias, periodicals, or societies.

Form divisions always have the same set of numbers, preceded by 0, viz.: 1, philosophy, theories, etc.; 2, compends, outlines; 3, dictionaries, cyclopedias; 4, essays, lectures, letters, etc.; 5, periodicals, magazines, etc.; 6, societies, associations, transactions, reports, etc.; 7, education, study, teaching, training, etc.; 8, polygraphy, collections, etc.; 9, history. Thus a periodical on any subject has the subject number followd by 05; e. g. a periodical on public health, 614.05.

But if the number already ends in 0, 0 is not repeated before form-division figures; e. g. a zoölogical magazine is 590.5, not 590.05.

Minute classification.— On first publication in 1876, a common criticism was that 1,000 heads could never be successfully used, however desirable so close classification might be. As soon, however, as actual experience proved it as easy to use 1,000 heads in the new system as 100 in the old, the obviously great practical value of close classification led one user after another strongly to urge the publication of subdivisions. This is now done in such a way that one may use the whole or any part of the sub-sections and ignore the rest without difficulty or confusion, thus allowing each to use minute subdivisions where he wishes or needs them, without being forced into refinements in subjects where he has few books or little interest. The first three figures only may be used as before, and the rest show the scope of the subject. On many topics minute sub-sections are printed simply for this purpose, and for use in indexing periodicals, transactions of societies, and in keeping notes.

The advantage of close classification is unquestiond, if the user knows just what it is. With this plan it is not only practicable, but comparativly easy. If there are only 10 books on a given topic, it is useful to have them in groups among themselves, for otherwise they would have only accidental order, which is of service to no one. A reader wishing a specific book should go, not to the shelves, but to the Author-and-title catalog, where he can find its place quickest. If he wishes a specific subject, he is sent instantly to the exact place by the Subject-Index. If he wishes to study the library's resources at the shelves, he will be *greatly helpt by the most minute classing*. A teacher showing his pupil the material on any subject, if there are only 20 books, would surely put together those covering the same points, if

there are even two. Much more should librarians group closely their greater collections, that readers may gain something of the advantages of an experienced guide.

Thus every specialist has his own special library. If a student of science in general, he is sent to class 5; if his department be zoölogy, his library is 59; if his specialty is shells, he finds all works and references on that subject in library 594. Whether a specialist needs it or not, every subject being a library by itself, shows resources and wants as no catalog can show them. A catalog cannot be made to take satisfactorily the place of handling books themselves. This advantage weighs most in a college or society library, where many go to the shelves; but even if librarians only are admitted, close classification is worth its cost in the added power it gives.

Mnemonics.— Arrangement of heads has been sometimes modified to secure mnemonic aid in numbering and finding books without the Index; thus China has always the number 1. In Ancient History, it has the first section, 931; in Modern History, under Asia, it has 951. Similarly the Indian number is 4; Egyptian, 2; English, 2; German, 3; French, 4; Italian, 5; Spanish, 6; European, 4; Asian, 5; African, 6; North American, 7; South American, 8; and so for all divisions by languages or countries. Italian 5, for instance, is in 035, 055, 065, 450, 850, 945, and many others. This mnemonic principle is specially prominent in Philology and Literature, and their divisions, and in *form* distinctions used in the first nine sections of each class. Philosophy, methods, or theory occurring as a head is always 1; dictionaries and cyclopedias, 3; essays, 4; periodicals, 5; associations, institutions, and societies, 6; education, 7; polygraphy or collections, 8; history, 9. In numerous cases several minor heads are groupt together as Other, always numbered 9.

While Italian is always 5, 5 is by no means always Italian. Grammar is 5, Periodicals are 5, Asia is 5, Oratory is 5, etc. Even were it possible, to limit 5 to Italian would waste numbering material, and results would not justify cost. The purpose is to give practical aid, not to follow a fanciful theory. A cataloger marking a German grammar, remembers that all Philology begins with 4, and, as German is always 3 and grammar 5, he knows the number must be 435. Italian (5), poetry (1), is as plainly 851 with no danger of being mistaken for "poetry of grammar" or "theory of Asia," because the numbers also have that meaning. This feature is an *aid*, not the regular method, and in all doubtful cases one refers at once to index or tables. Suggested difficulties are usually creations of ingenious theorists and not an outgrowth of practical experience in using this plan.

Wherever practicable, this mnemonic principle is used in subdividing sections. 558, Geology of South America, is subdivided by adding the *sections* of 980, History of South America. Geology of Brazil then

must be 558.1: mnemonically, the first 5 is the Science number; second 5, Geology; 8, South America; and 1, Brazil. Any library attendant or regular user of the scheme recognizes at a glance 558.1 as Geology of Brazil. This mnemonic feature occurs in several hundred places in the classification, and is of great practical utility in numbering and finding books without catalog or index, and in determining the character of any book simply from its call number. The extent of its use is shown in the four tables appended to the main Index, giving alfabetical lists of (1) subjects, with class number of each, which may be subdivided geografically; (2) form divisions, with the figures to be added in making such division; (3) languages, with their class numbers, which may be further subdivided philologically by adding the figures given in Index table 4; (4) philological divisions, with the figures to be added in subdividing any language in Index table 3.

As in close subdivision, the wish for mnemonic correspondence has never outweighd any claim of greater usefulness. In many cases choice between numbers was hardly perceptible, e. g.: whether in philology the order should be French, Spanish, Italian, or French, Italian, Spanish. In such cases mnemonic numbers were given preference, and 17 years has proved this wisest. Great gain, beside ease of remembering, results from this uniform use of the same numbers with the same meaning whenever a similar division is made. Wherever a division by languages or countries is made, it follows philology or history numbers, and in the tables, the note "Divided like 900" fully takes the place of reprinting all the history subdivisions. This saving justifies use of these numbers in some cases, even where a somewhat different order might seem more nearly fitted to the special case; e. g. in 342 an order which would put the constitutional history of Canada (342.71) and Australia (342.94) next that of England (342.42) would be better adapted to the special case than the actual order which separates them both from England and each other. Still by following the usual "procrustean" numbers, many topics can be subdivided minutely without further study, by simply applying the History or Language subdivisions. A single illustration of the astonishing power this principle gives will suffice, tho there are thousands that might be given: 016 is "Bibliografy of special subjects, divided like the regular classification," therefore by aid of the tables under 581, 016.581974742 readily translates itself to users of the system into "Bibliografy of the flora of Albany co., N. Y." While these 12 figures might never be used, if a specialist wishes minute division, it is ready to his hand, conforms to the Index, and will be clearly understood by any one familiar with the plan. A specialist in such cases would probably adopt a contraction for his long number, and use in full only the minute divisions. See p. 35 for such contractions.

Decimalism.— We have not sacrificed utility in order to force sub-

to the proper page of a bound book. This difficult problem has been solvd by using no reference marks except the simplest symbols known to the human mind — the Arabic numerals — and by aiding their simplicity with many practical mnemonic devices.

The system has been found on trial equally valuable for cataloging and indexing, and for numbering and arranging books and pamflets on the shelves. For notes on other uses, see p. 37.

When the first edition was published in 1876, 12 pages of tables containing the thousand sections were criticised as being altogether too elaborate for use even in a large library. As fast, however, as the Relativ Index with its remarkable powers became known, users askt for further subdivisions, and both tables and Index have steadily grown since it has been found so easy to gain the admitted great advantages of close classification, and yet avoid the old difficulties by means of the Relativ Index.

Extent of use.— The register of libraries which have actually adopted the system, though growing rapidly, is known to be very incomplete. Names are often added of libraries which have used the system for five or 10 years without our learning the fact. A careful registry is kept of the buyer of each classification printed, but we make no assumption that a library has adopted the system because it has ordered a copy of the book.

We print below a brief table showing the growth of the four editions. The nearest estimate possible gives from 200–300 libraries, besides a large number of private book owners and literary workers having the system in daily use.

		No. of pages				
Edition	Date	Preface, etc.	Tables	Index	Total	Copies printed
1	1876	12	12	18	42	1,000
2	1885	66	162	86	314	500
3	1888	4	227	185	416	500
4	1891	41	234	191	466	1,000

What is the system?— A Relativ Index[1] with a subject classification, so numberd or letterd that reference is compact, accurate, and quickly made, is the essential feature, and anything beyond this is merely the application of this plan with various helps and accessories.

[1]Tho the author is interested only in the usefulness of the system, not in questions of priority of its invention, extended investigation by others fails to show that this most important feature of the system — the relativ index, on which all else hinges — had ever before been used as here to index by a single reference the most diverse material. The relativ location had been used, but not in the present combination with the subject index, which gives it most of its value. The tables of classification, while adopting suggestions from many sources, are original in their system of arrangement and notation, and in many minor features. The decimal form and many mnemonic features of the system have not been found in earlier use, tho since their invention in 1873, this as well as the subject index and other features have been very frequently copied, often with, but oftener without, acknowledgment of their source. But the author is glad to find this system, which has cost him so much labor, doing good service even for those who neglect to mention where they found so valuable a labor-saving literary tool.

Any subject classification with a *relativ* index in which the one entry indexes a book in the ordinary way, and at the same time indexes shelves, cards, clippings, or any other literary material, is a form of this system.

Decimal form of the system.—The author has devised and experimented with several different plans of classification and notation by means of numbers, letters, and combined numbers and letters, with bases of 26, 35, (the latter accepted by Mr Cutter and now most admirably workt out in his Boston Athenæum classification), 50, 100, and 150, yet none have seemd good enough to warrant fully working out and publishing details, except that here printed, based on Arabic numerals used decimally. The wide adoption of this system is largely due to the fact that no one ever complains that a classification is too simple, while there is great danger of the complaint of complexity. The simplicity of the decimal form has so commended itself that many think of it as the only form, tho obviously it would be just as much the "relativ index system" if the classification were wholly markt by letters.

The Subject Index is the simplest application of the symbols next in simplicity to 1, 2, 3; viz. a, b, c. This use of the simplest two sets of symbols known, with their common meanings, has given the system its reputation as the simplest yet proposed.

Best known decimal form.—The decimal form means simply that the heads are groupt and numberd with the common arithmetical figures used decimally. As the system here printed is the only decimal form that has thus far been carefully elaborated and publisht, it is commonly thought and spoken of as if it alone were the only possible form of the author's original plan; tho obviously an infinite variety of "relativ index systems" in decimal form could be made by filling the outline with different heads, or with the same heads in different order.

To make out a new set of heads would involve labor and cost vastly beyond the dreams of any person who has not tried exactly this work. The time actually spent on the tables as here printed, by various competent workers, would aggregate several years and cost thousands of dollars. The uniform and urgent advice of the experienced is to adopt a poorer scheme already made rather than undertake so herculean a labor. When done, the maker may possibly be better suited with it, but it is doubtful if many others will be. It is vastly wiser for any man whose time is of value, to use it in something more practically useful to himself and his library than in trying to construct a "satisfactory" scheme of classification. No one yet ever wholly suited himself or any one else, and probably no one ever will. By adopting this scheme already workt out he saves much time and money, gains the immense advantage of using a system in common with hundreds of

others, so that he may utilize their labors and investigations and share with them the economies of coöperation.

Relativ Subject Index.—The alfabetical Index, the most important feature of the system, is as complete as could be made by combining the headings of leading catalogs and bibliografies, and adding such as users of the system have found desirable in 17 years' experience. After all these efforts, new headings will still be needed, and will be added in each new edition.

The Index is designd to guide both in numbering and in finding books. In assigning numbers, the most specific head that will contain the book having been determind, reference to that head in the Index gives the class number which should be assignd. Conversely, in finding books on any given subject, reference to the Index gives the number under which they are to be sought on the shelves, in the shelf list, or in the subject catalog. Whenever a new subject comes up, it and its synonyms, with the class-number decided on, should be interlined in the Index, so that the classifier may be uniform with himself in future work.

The Index aims to give similar or synonymous words, and the same words in different connections, so that any person of intelligence will hardly fail to get the right number. A reader wishing to know something of the tariff looks under T, and, at a glance, finds 337 as its class-number. This guides him to the shelves, to all the books and pamflets, to the shelf catalog, to the subject catalog on cards, to the index of books charged at the loan desk, and, in short, in simple numerical order, thruout the whole library to anything bearing on his subject. If he turns to the tables, he will see that it means class 3, Sociology; division 3, Political economy; section 7, Protection and free trade; but the number alone is enough to classify the book or to find it, for either cataloger or reader. If he had lookt under P for protection, or F for free trade, or D for duties, or C for customs, or under any other leading word relating to his subject, he would have been referd to 337, or some one of its sub-divisions.

Had he lookt for "railroad" he would have found after it 16 separate entries, each preceded by a catchword indicating the phase of the subject in the scheme. A book on railroads may be a treatise on the desirability of government ownership, control, etc., and then is clearly a question of social science; or it may be a practical hand-book for an employe, explaining business methods of railroading, running trains, handling freight, etc., when it is as clearly one of the useful arts. The cataloger knows to which of these heads his book belongs, and the reader knows in which of its phases he wishes to examin the subject. Moreover, the 3 and 6 beginning the numbers indicate clearly the character of each class. But even if the significance of these figures were entirely disregarded, no confusion would result, for, on consulting either of the numbers in the catalog, in the scheme, or on the shelves, the difference would be clearly seen.

In other cases, it is more useful to keep the books on the same subject together, tho treated from different standpoints. A glance at the Index tells either reader or classifier which plan has been adopted for each case.

All topics printed in black-face type in the Index are further divided in the tables, where one may see the subheads. This saves reprinting all these subdivisions which would increase the bulk of the Index many-fold; e. g. if one having a book on "prison labor" looks in the Index for "Convict labor" or "Prison contracts," he finds at once its special number 331.5; but if, on the other hand, he thinks to look only for the general subject "Labor," he finds in black-face type the entry "Labor, political economy, 331," and turning to the tables he finds under 331 the subdivision "331.5, Convict labor," the exact topic in hand.

The greatest objection to a clast catalog has always been the impossibility of knowing just where to put a book in cataloging, and just where to look for it when it is again wanted. Different librarians, or the same librarian at different times, clast the same or similar books in widely different places. Where one man did all the work, and held his place for a long series of years, there was a certain degree of uniformity; but even then there was danger of looking at the same book from different standpoints, thus causing confusion. When the daily press is full of one phase of a subject, the tendency is strong to class all books on this particular subject from the current point of view; and next year, if a different side of this same subject is again before the public, there is the same tendency to class books from the new point of view, in this way separating books on the same and putting together books on different phases. But, fortunately, practical usefulness does not require that the ideas of this one or that one be followd, but only that books of the same character be always put in the same place, and that there be some means of knowing readily where that place is. The Relativ Index, with its catchwords, was designd and is found in use to meet both these requirements, for it insures that books on the same phase of any subject coming before the classifiers shall be assignd to the same place, and that any reader seeking these books shall be referd to that place. If this is done, all requirements of a good classification are fild. If it is not done, the system is a failure; for the only real test of any scheme is its helpfulness to workers in the library.

Some prominent opponents of clast catalogs admit that the Relativ Subject Index, in deciding where to class a book at first, and where to look for it ever afterwards, has removed their strongest objections. Certainly it would be impossible to make an Index more compact or more easy of reference.

This Index allows a great portion of the work of classification to be

done in advance by experts, thus securing, at the merest fraction of the usual cost, better and more uniform results than would be possible to the ordinary cataloger, and reducing the labor of classing a library to much narrower limits than ever before.

Each of these thousands of subjects has been carefully assignd its number, many of them after long consideration and consultation with specialists. No individual is sufficiently learned to class wisely books on all subjects and sciences; but botanists can assign all botanical subjects to the right number, mathematicians all mathematical topics, and thus the Index will in time become as accurate as the best scholarship of the day can make it. Even if the decision reacht were not the wisest possible, all practical purposes are servd, because, as each cataloger copies the number from the same index, all books on that subject will be placed together; and, as each reader gets his number from this same Index, he will go directly to the books he seeks.

What the Relativ Index includes.— Most names of countries, towns, animals, plants, etc. have been omitted, the Index containing only those which are in the tables; e. g. it cannot enumerate all the species of trilobites, but when the classifier has found from the proper reference books that Remopleurides is a trilobite, the index will send him to 565.39, and he can classify his monograf on that subject.

Tables.— The essential complement of the Subject Index is the tables of classification, so mapt out as to show in four ways — viz., by size of type, face of type, indention, and number of figures prefixt — the rank of each subject in the classification.

The field of knowledge is divided into nine main classes, numberd by the digits 1 to 9. Cyclopedias, periodicals, etc., so general in character as to belong to *none* of these classes, are markt *nought*, and form a tenth class; e. g. class 1 is the library of Philosophy; class 5 is the library of Science; class 9, of History, etc. These special classes or libraries are then considerd independently, and each one is separated again into nine special divisions of the main subject, numberd from 1 to 9, as were the classes, general works belonging to *no* division having *nought* in place of the division number. Thus 59 is the ninth division (Zoölogy) of the fifth class (Science). A third division is then made by separating each of these divisions into 10 sections, numberd in the same way with 0 and the nine digits; and this decimal subdivision is repeated, till it secures as many subsections as may be needed in any topic. Thus 513 is the third section (Geometry) of the first division (Mathematics) of the fifth class (Natural science). This number, giving class, division, section and sub-section, if any, is calld the classification or the class number, and is applied to every book and pamflet belonging to the library. All geometries are thus numberd 513, all mineralogies 549, and so thruout the library all books on any given subject bear the number of that subject in the scheme.

Where 0 occurs in a class number, it has its normal zero value. Thus a book numberd 510 is class 5, division 1, but *no* section; i. e. the book treats of division 51 (Mathematics) in general, and is limited to no one section, as is geometry, markt 513; 500 indicates a treatise on science in general, limited to no division. A naught occurring in the first place would in the same way show that the book is limited to no class; e. g. a general cyclopedia which treats of all nine classes.

Choice and arrangement of heads.— The selection and arrangement of the many thousand heads of the classification cannot be explaind in detail for want of space. In all the work, philosophical theory and accuracy have been made to yield to practical usefulness. The impossibility of making a satisfactory classification of all knowledge as preservd in books, has been appreciated from the first, and theoretical harmony and exactness have been repeatedly sacrificed to practical requirements.

Sequence of allied subjects.— Wherever practicable, heads have been so arranged that each subject is preceded and followd by the most nearly allied subjects, and thus added convenience is secured both in catalogs and on shelves; e. g. Building (690) follows Mechanic trades (680) at the end of Useful arts, and Architecture follows at the beginning of Fine arts.

The student of Biology (570) finds fossil life or Paleontology (560) before, and vegetable life or Botany (580) after, this followd in turn by animal life or Zoölogy (590), ending with Mammals (599); while Useful arts (600) begin with human Anatomy (611) under Medicine, thus giving a regular growth from the fossil plant thru the vegetable and animal kingdoms to the living man.

Co-ordination.— Theoretically, the division of every subject into just 10 heads is absurd. Practically, it is desirable that classification be as minute as possible, without use of added figures; and the decimal principle, on which our scheme hinges, allows 10 divisions as readily as a less number.

This principle has proved wholly satisfactory in practice, tho apparently destroying proper co-ordination in some places. The difficulty in such cases is entirely obviated by the use of another figure, giving nine sub-sections to any subject of sufficient importance to warrant closer classification. In history, where classification is made chiefly by countries, a single figure is added, as in the other classes, to give a tenfold geografical division, and a zero followd by another figure is added to give a division into periods.

As all history is by countries, and as minute geografical subdivisions are needed for travels, guide books, and various other uses, the rule is adopted always to use 0 before the time or period figure. The 0 shows that there is no further geografical division in that number, and that a period division is there introduced. This allows the use of

the same period division in various places, e. g. 942.05 England in time of the Tudors; 942.905 Wales under the Tudors; 942.7405 Yorkshire under the Tudors. As each figure added gives a tenfold division, any desired degree of minuteness may be secured in classing special subjects.

As in every scheme, many minor subjects are under general heads to which they do not strictly belong. In some cases, these heads are printed in a distinctiv type; e. g. 429 Anglo-Saxon, under English philology. The rule has been to assign these subjects to the most nearly allied heads, or where it was thought they would be most useful. The only alternativ was to omit them altogether. If any such omission occurs, it will be supplied as soon as discoverd, the intention being to provide a place in the tables for every known topic.

New subjects.— When any new topic arises, it is always closely related to some existing heads. If there be no blank space left for it, it is combined with the head nearest allied, and, if desired, by adding a decimal place abundant room is made for the new comer. The system is thus capable of unlimited expansion, and can never break down for lack of room for growth.

Catch-titles.— In naming headings, strict accuracy has often been sacrificed to brevity, for short familiar titles seemd more important than that the names given should express with fulness and exactness the character of all books catalogd under them. Many subjects, apparently omitted, will be found in the Index, assignd, with allied subjects, to a head which bears the name of the most important only. Reference to this Subject Index will decide at once many doubtful points.

Form distinctions.— The classification is mainly by *subject* or *content* regardless of form; but an additional form distinction for general treatises is found practically useful.

Thus, in Science there are many compends, dictionaries, essays, periodicals, and societies, treating of Science in general, and so having 0 for the division figure, but treating it under different forms, and, therefore, divided into sections according to this form: 501 for philosophy or theories of Science, 502 for compends, 503 for dictionaries. This treatment is as nearly as practicable uniform in all classes. Creasy's "Fifteen decisive battles" is 904, the first figure being 9, because the book is clearly history; the second figure 0, because limited to no division of class 9; and the third figure 4, because the book is a collection of essays.

These form distinctions are introduced at the beginning of the class because the number of general works is large, and these first numerals would otherwise be unused. They apply only to general treatises, which, without them, would have a class number ending in two naughts.

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divisions or even sections; e. g. under 510, works on mathematics in general are divided by form into 510.3, dictionaries of mathematics; 510.4, essays; 510.5, periodicals, etc., just as works on Science in general were divided. A dictionary of mathematics is 510.3, not 503, because every book belongs to the most specific head that will contain it; so 503 is limited to dictionaries or cyclopedias of science in general. Books treating of many subjects, such as general cyclopedias or periodicals, go in class 0, and are then divided by form into cyclopedias, periodicals, or societies.

Form divisions always have the same set of numbers, preceded by 0, viz.: 1, philosophy, theories, etc.; 2, compends, outlines; 3, dictionaries, cyclopedias; 4, essays, lectures, letters, etc.; 5, periodicals, magazines, etc.; 6, societies, associations, transactions, reports, etc.; 7, education, study, teaching, training, etc.; 8, polygraphy, collections, etc.; 9, history. Thus a periodical on any subject has the subject number followd by 05; e. g. a periodical on public health, 614.05.

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there are even two. Much more should librarians group closely their greater collections, that readers may gain something of the advantages of an experienced guide.

Thus every specialist has his own special library. If a student of science in general, he is sent to class 5; if his department be zoölogy, his library is 59; if his specialty is shells, he finds all works and references on that subject in library 594. Whether a specialist needs it or not, every subject being a library by itself, shows resources and wants as no catalog can show them. A catalog cannot be made to take satisfactorily the place of handling books themselves. This advantage weighs most in a college or society library, where many go to the shelves; but even if librarians only are admitted, close classification is worth its cost in the added power it gives.

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While Italian is always 5, 5 is by no means always Italian. Grammar is 5, Periodicals are 5, Asia is 5, Oratory is 5, etc. Even were it possible, to limit 5 to Italian would waste numbering material, and results would not justify cost. The purpose is to give practical aid, not to follow a fanciful theory. A cataloger marking a German grammar, remembers that all Philology begins with 4, and, as German is always 3 and grammar 5, he knows the number must be 435. Italian (5), poetry (1), is as plainly 851 with no danger of being mistaken for "poetry of grammar" or "theory of Asia," because the numbers also have that meaning. This feature is an *aid*, not the regular method, and in all doubtful cases one refers at once to index or tables. Suggested difficulties are usually creations of ingenious theorists and not an outgrowth of practical experience in using this plan.

Wherever practicable, this mnemonic principle is used in subdividing sections. 558, Geology of South America, is subdivided by adding the *sections* of 980, History of South America. Geology of Brazil then

must be 558.1: mnemonically, the first 5 is the Science number; second 5, Geology; 8, South America; and 1, Brazil. Any library attendant or regular user of the scheme recognizes at a glance 558.1 as Geology of Brazil. This mnemonic feature occurs in several hundred places in the classification, and is of great practical utility in numbering and finding books without catalog or index, and in determining the character of any book simply from its call number. The extent of its use is shown in the four tables appended to the main Index, giving alfabetical lists of (1) subjects, with class number of each, which may be subdivided geografically; (2) form divisions, with the figures to be added in making such division; (3) languages, with their class numbers, which may be further subdivided philologically by adding the figures given in Index table 4; (4) philological divisions, with the figures to be added in subdividing any language in Index table 3.

As in close subdivision, the wish for mnemonic correspondence has never outweighd any claim of greater usefulness. In many cases choice between numbers was hardly perceptible, e. g.: whether in philology the order should be French, Spanish, Italian, or French, Italian, Spanish. In such cases mnemonic numbers were given preference, and 17 years has proved this wisest. Great gain, beside ease of remembering, results from this uniform use of the same numbers with the same meaning whenever a similar division is made. Wherever a division by languages or countries is made, it follows philology or history numbers, and in the tables, the note "Divided like 900" fully takes the place of reprinting all the history subdivisions. This saving justifies use of these numbers in some cases, even where a somewhat different order might seem more nearly fitted to the special case; e. g. in 342 an order which would put the constitutional history of Canada (342.71) and Australia (342.94) next that of England (342.42) would be better adapted to the special case than the actual order which separates them both from England and each other. Still by following the usual "procrustean" numbers, many topics can be subdivided minutely without further study, by simply applying the History or Language subdivisions. A single illustration of the astonishing power this principle gives will suffice, tho there are thousands that might be given: 016 is "Bibliografy of special subjects, divided like the regular classification," therefore by aid of the tables under 581, 016.581974742 readily translates itself to users of the system into "Bibliografy of the flora of Albany co., N. Y." While these 12 figures might never be used, if a specialist wishes minute division, it is ready to his hand, conforms to the Index, and will be clearly understood by any one familiar with the plan. A specialist in such cases would probably adopt a contraction for his long number, and use in full only the minute divisions. See p. 35 for such contractions.

Decimalism.— We have not sacrificed utility in order to force sub-

jects on the decimal procrustean bed. *Decimals have been used as servants, not as masters.* When subjects have been combined or separated into just 10 heads, it has been from no necessity of the scheme, but because it seemd the most useful way, all things considerd. In many cases there were at first only three to seven heads instead of 10; but usually, during three years of testing before first publication, it was found useful to divide some of these heads, and, as it took no added space or labor, there was no objection to it. On the other hand, there were cases where more than 10 heads seemd more natural; and, as any number up to 100 is provided for by adding one decimal place, this was done in most cases. As only 1000 sections were first printed, it was often necessary to put two or more closely allied topics together under the same number, as must still be done whenever a library limits the number of figures used to three; but during the 14 years that the system has been in print, subdivisions have multiplied, till now every important topic has its own special number. The scheme gives us for each topic, as it were, a case of nine pigeon-holes, with a large space at the top; and we use them as every practical business man uses such pigeon-holes about his desk. If, as in 220, there are less than nine main topics, it is often convenient to use the extra spaces for subdivisions. Thus we keep separate, under the Old Testament, the historical, poetical, and profetical books; and under the New Testament, the gospels, epistles, and apocalypse. The spaces are there, and it is convenient to use them,—a reason that experience proves a good answer to the charge of lack of coördination, tho indention and type in the tables make that charge baseless. Then in 280, having more than nine topics,—if we are using only three figures,—we put Congregational in the same space with Presbyterian, and all the little denominations together in the last box, just as the business man puts his papers in his pigeon-holes. If he insisted on having a different case made to order for each use, it would cost over twice as much; he could not group them together or interchange them, and they would not fit the shelves of his office as now.

There has been a perverse misapprehension of this feature, and critics oftenest stumble over "procrustean 10." In fact, this is an element of usefulness. A railroad also has the fault that it is procrustean in its path and in its times. It cannot come to your door nor wait your convenience, as did the stage-coach or carriage; it cannot go to the fields for its loads of produce; it cannot turn out for obstacles; and it is simply because it is procrustean that it can do its work so much better and quicker and cheaper. The parallel could be fairly extended to many other cases, but any thoughtful mind will recognize that the economy and ease of working the Decimal system are dependent on its being procrustean. Without it we should lose the great simplicity of the Relativ Index, many mnemonic correspondences, and the useful

0 to indicate form and period divisions. Our intersecting lines of space and time in History, etc., of language and form in Literature and Philology, and scores of similar advantages, depend wholly on procrustean 10, or else on some other number equally procrustean, but lacking the advantages of exact correspondence to our arithmetic.

Relativ location.— Economy and simplicity called not only for the Subject Index, but also for some plan of consolidating the two sets of marks heretofore used; the one telling of what subject a book treats, the other where the book was shelvd. By relativ location and decimal class numbers we have made our simple Arabic numbers tell of each book and pamflet, both *what* it is, and *where* it is.

In arranging books on the shelves, absolute location by shelf and book number is wholly abandond, relativ location by class and book number being one of the most valuable features of the plan. Accompanying the class number is the book number, which prevents confusion of different books on the same subject.[1] In finding books, the printed numbers on the backs are followd, the upper being the class and the lower the book number. The class is found in its numerical order among the classes, just as the shelf is found in the ordinary system. Shelves are not numberd, as increase of different departments, opening of new rooms, and any arrangement of classes to bring books most circulated nearest the delivery desk, will at different times bring different class numbers on any given shelf. New books, as receivd, are numberd and put in place, in the same way that new titles are added to the card catalog.

Thus all the books on any given subject are found standing together, and no additions or changes ever separate them. Not only are all the books on the subject sought found together, but the most nearly allied subjects precede and follow, they in turn being preceded and followd by other allied subjects as far as practicable. Readers not having access to the shelves find short titles arranged in the same order in the shelf list, and full titles, imprints, subject and cross references, notes, etc., in the subject catalog.

Parts of sets, and books on the same or allied subjects, are never separated as they are sure to be, sooner or later, in every library arranged on the common plan, unless it be frequently re-arranged and recatalogd. The great expense of this makes it impracticable except for a few wealthy libraries. In this system both class and book numbers remain unchanged thru all changes of shelving, buildings, or arrangement.

Among hundreds of points raisd by librarians as to its practical workings and usefulness, the only one in which it was not shown to be equal or superior to the old systems was that in this relativ location a

[1]For suggestions regarding forms of book numbers best used with this scheme of classification, see p. 30.

book which this year stands, e. g. at the end of a certain shelf, may not be on that shelf at all another year, because of uneven growth of the parts of the library. This slight objection, however, inheres in any system where books are arranged by subjects, rather than by shelves, windows, doors, and similar non-intellectual distinctions.

Sizes on shelves.—Most libraries have abandond close distinction of sizes. It is true that this distinction saves a little space, but at far too great a cost; for every distinction of sizes makes a parallel classification. If books are groupt in five sizes, one must look in five places before he can be sure of having seen all the books.

It is better to shelve octavos and all smaller books together in one series, and arrange in parallel libraries only quartos and folios, which are too large to stand on the regular shelves, showing the series in which any oversize book is put by a size letter prefixt to the book number; e. g. 749 qA, to show that book A on Artistic furniture is too large for the regular shelves, and so is placed in the q or quarto series. Another way is to use a wood or pasteboard dummy, to show the location of a book not in its regular place. But, however solvd, there is no conflict between the size problem and the Decimal Classification.

CATALOGS

Any system of catalogs may be used with this scheme. But the two essentials of even the simplest system are the author (or preferably name) catalog and the shelf list. The chief use of the system for catalogs is for the latter and for the clast catalog on cards.

Name catalog.—In the name catalog on cards, arranged strictly by names of authors and of persons or places written about, the class number holds a subordinate place, yet is constantly useful. If printed, it appears in a single colum as in the Relativ Index, and, where there is no subject catalog, one can rapidly pick out the books on any desired topic by glancing down the colum for the class number wanted.

Shelf list.—In the shelf list the class number is again highly important, as it makes of the list the most useful form of brief subject catalog. Each page gives in colums accession number, author's name, and brief title of every book in the library on the specific subject bearing that class number.

Subject catalog.—In the card catalog of subjects the classification is mapt out above the cards by projecting guides, making reference almost instantaneous. Subjects are arranged in the 1, 2, 3 order of their decimal subject numbers exactly as in the classification tables, and the cards of each subject are then further arranged alfabetically by authors.

The printed subject catalog on this plan is also the most compact and satisfactory in use. Under each class number are given the resources of the library on that subject, the heading giving for conven-

ience the name as well as the number of the subject; e. g. "513 Geometry." General notes are printed in finer type under general heads, and an index at the end shows where to open the book to find any topic. As class numbers are put in place of page numbers, this index serves for any catalog, list or library arranged on this plan.

Dictionary catalog.— While it is as easy to use the dictionary catalog with this system as with any other, we find the common dictionary catalog inferior to the clast, for nearly all practical purposes. The dictionary plan, if used in a catalog, must give results very unsatisfactory to students, or else very expensiv to makers.

The failure of the dictionary catalog to meet the requirements of the scholar has been often pointed out. While it is far the best for an index, there still exists much of the same need of a good clast catalog as at the first. But the difficulties in the way both in making and using such a catalog have heretofore been so great that there has been a conviction among many practical librarians that notwithstanding its great advantages, the idea must be abandond as impracticable, while other eminent authorities have ably argued that the poorest clast catalog is better than one unclast, and that any use of such a catalog is in itself a lesson in bibliografy. Now that the serious difficulties of making a good clast catalog have been so largely removed by the simple numbers and Relativ Index of the decimal plan, the merits of the clast over the more common dictionary system are becoming doubly prominent.

The Subject Index of this system is a skeleton dictionary catalog, covering everything not fully covered by the "name catalog." Instead of giving the book titles under each head, the number refers to all those titles simply and directly. The index may be made on any of the various dictionary plans, with all the advantages it may possess. To us the simplest seemd the best. We give only short headings with a brief indication in doubtful cases of the point of view taken in assigning the class number.

We therefore unite the advantages of the dictionary and clast catalogs, not by mingling them together, and so losing much of the simplicity of one and as much of the excellence of the other, but by really using both, each with its own merits. Only one set of titles is needed, for the class numbers make them available for both catalogs.

ADVANTAGES

Shelves.— The system on the shelves is the simplest form of relativ location. Many libraries have adopted it for shelf arrangment, where catalogs recently printed, or large investment in another plan, made it too expensiv to change anything else. The advantages here have been already mentiond under Relativ location, p. 19.

Shelf list.— By simply printing the shelf list at any time, a subject class list of the best kind is made for any topic on which there may be

present interest; e. g. if a town contemplates a new water supply, interest is greatly stimulated, and everything about water-works is wanted. The librarian has only to open his shelf list to 628.1 and 352.6 and print it. This great advantage is gaind with but slight variation from the form found best in its regular use as a shelf list for yearly examination of the shelves to detect losses and misplacements.

Accession book.— From the accession book, tables of the number of books added on each subject are readily made from the shelf mark colums. A glance at it shows the character, by subjects, of the books added during any given period, for, wherever this class number occurs, it tells not only where the book is shelvd but also what it is about.

Pamflets.— These class numbers applied to pamflets have proved specially satisfactory. The number is written on the upper left corner, and the pamflets are shelvd in pamflet cases side by side with books on the same subject, or they may be kept on special shelves divided every 10 cm. by perpendicular partitions. Little expense is incurd, and yet the entire pamflet resources of the library on any subject can be produced almost instantly. The immense advantages of this plan over those in common use, both in economy and usefulness, will be appreciated by every librarian in charge of a pamflet collection. A name or author catalog is made on slips if time allows. The pamflets themselves are the best subject catalog. Uncatalogd pamflets treating of any subject bear the same class number, and are arranged on the shelves in a case immediately before or after the books of each section, or, if preferd, each pamflet may be put in exact place as if bound.

The tendency grows to put all material under its class number on the regular shelves, for the same reasons that have led to giving up division by size of books. One examining a subject likes to see all the resources in one place so far as possible.

Sale duplicates.— The same arrangement is admirable here. They are so constantly changing that a catalog can hardly be afforded, and a subject arrangement on any other plan than this is difficult to maintain. Still, it is very essential that there be some means of knowing what duplicates there are on any given subject. By simply penciling the class number on the books and arranging them numerically, it is possible to give this information more quickly and more satisfactorily than by any other method, and at the same time with less expense.

Charging system.— Here as elsewhere it serves all ordinary purposes, with special advantages of its own. On the library accounts the character of each person's reading is clearly indicated by the numbers charged, and minutest statistics of circulation in any subject are made by simply counting the call slips in the register or check box, and entering the number against each class in the record. The whereabouts of any book wanted, or the amount of use of any subject, is seen at a glance. This decimal check box can be used in any system. Its

peculiar advantage with this classification is that it always exhibits, correct to the hour, a cómplete table of all books off the shelves in each subject. The slips in box 53 show just how many and what books are out in Physics; the slips under 823 show all the English novels in circulation, and who have them. Such a table of circulation always at hand, and without an item of expense or labor,—for the check box is necessary as a record of loans,—is highly prized by all interested in the character of books read, and at no time has so much wise attention been given to educating the taste of readers in our public libraries as at the present. To convert this table into permanent statistics involves only the trifling labor of recording as often as desired.

Subject references.— In no place are the peculiar advantages felt more than here. Many users of the system are undertaking analyses and cross references to an extent not hitherto thought practicable or hardly possible. These few figures tell as clearly as a long heading exactly what the reference is, while the gain in ease of use is even greater than the time and space saved in recording. The clearness and directness of the method aid wonderfully in this work. References to transactions, or chapters in essays, may be made in the most compact and usable form.

Recataloging.— When Amherst College in 1873 adopted the plan, and began to recatalog its library, it was found entirely practicable to make the change to the new system gradually, as means allowd, without interfering in any appreciable degree with the circulation of the books. The methods employd for thus changing without interrupting use must vary according to the different conditions of each case. The essential feature is some distinction between old and new call-numbers, sufficiently markt to be easily recognized by attendants. Since call-numbers ordinarily consist wholly of figures, the initial letter of the Cutter author-numbers furnishes this requisit. All numbers consisting of figures only are then recognized as belonging to the old, and all numbers containing a letter as belonging to the new system.

Adaptability.— The system is so flexible that it adapts itself to almost any circumstances. It may be used in almost any one of its applications without the others, and with a propórtionate result. It may be applied to pamflets alone, bringing order out of chaos, and solving this vext and vexing problem; or it may be used for the catalogs, leaving the arrangement on the shelves as before; or it may be applied to the shelves, while the catalog is on the dictionary or any other plan, and so on.

Arabic numerals.— Arabic numerals can be written and found quicker, and with less danger of confusion or mistake, than any other symbols. Therefore, Roman numerals, capitals and small letters, and similar symbols usually found in systems of classification, are entirely discarded, and by exclusiv use of Arabic numerals thruout the shelves,

indexes, catalogs, and records, there is secured the greatest accuracy, economy, and convenience. This advantage is specially prominent in comparison with systems where the name of the author or the title must be written, in calling for or charging books and in making references.

Endowment of special departments.— Another great advantage of this plan is its peculiar adaptability to the plan of endowing special departments. One specially interested in any subject can often be induced to endow that subject with a sum, of which the income shall each year buy all the best books that appear on it.

If John Doe is specially interested in the opera, the library says to him: "Give us $1000 as an endowment of 782, and we will call it the Doe Library of Dramatic Music. There will be found every book, pamflet, newspaper clipping, or ms. that the library has or can get on this subject. Gifts from others will be placed in the Doe Library, the donor's name being given on the book-plate, and for generations to come every person interested in the opera will be grateful for your foundation." In this way 782 is assignd to John Doe, and his pride is stimulated in developing it. If another man with larger means and interest will endow the whole subject of music 780, there is no difficulty or impropriety in including 782, the Doe Dramatic Music Library as the second section of 780, the Roe Music Library.

This is one of the most promising fields for development, for almost every library has among its readers some specially interested, who if properly approacht would endow some topic, even if a small one, and this relativ location, with its definit number expressing just the ground coverd, may be of great service in working up this plan of special endowments.

Summary.— The claims of the system may be sumd up as follows: Compared with other systems it is less expensiv; more easily understood, rememberd, and used; practical rather than theoretical; brief and familiar in its nomenclature; best for arranging pamflets, sale duplicates, and notes, and for indexing; susceptible of partial and gradual adoption without confusion; more convenient in keeping statistics and checks for books off the shelves; the most satisfactory adaptation of the card catalog principle to the shelves. It requires less space to shelve the books; uses simpler symbols and fewer of them; can be expanded, without limit and without confusion or waste of labor, in both catalogs and on shelves or in catalogs alone; checks more thuroly and conveniently against mistakes; admits more readily numerous cross references; is unchangeable in its call numbers, and so gives them in all places where needed, as given in no other system; in its index affords an answer to the greatest objection to clast catalogs, and is the first satisfactory union of the advantages of the clast and dictionary system.

SUGGESTIONS TO USERS

In referring to tables, hold the book in the right hand and turn with the left, then the class numbers show very plainly on the left margin and reference is greatly expedited. Some prefer to hold the book in the left hand, but in any case the eye should follow the left pages holly.

PLAN OF BOOK

Tables.— The first page of tables shows the 10 classes into which all topics are divided. The next page, showing the nine divisions of each of the 10 classes, is a bird's-eye view of the whole scheme on a single page. Then follows a synoptic view of 10 pages, one for each class, showing the nine sections of each division of each class.

Following these synopses is the complete classification, which repeats in proper order classes, divisions, and sections, with all their subsections. For the convenience of the user, who thus gets a fuller and clearer idea of the field which each number covers, synonymous terms, examples, brief notes, dates, and various catch-words are often added to the main heads. Therefore all references to numbers **should be lookt up in the full tables** of subsections, using the summaries when only a synoptic view is wanted.

Index.— Next is an alfabetical index of all the heads, referring by class number to the exact place of each in the preceding tables. This Index includes also, as far as found, all synonyms or alternativ names for heads, and any other entries that seemd likely to help a reader find his subject readily. Tho the user knows just where to turn to his subject in the tables, if he consults the Index, he may be sent also to other allied subjects, where he will find valuable matter which he might otherwise overlook.

Numeration.— In thinking or speaking of the class numbers, to avoid confusion **always divide at the decimal point, and name it**; e. g. read 942.27 "nine forty-two, point twenty-seven," never "ninety-four two twenty-seven." If "point" were omitted, the ear might readily interpret 270.2 as 272, while "two seventy, point two" can never be misunderstood.

Familiarity with classification.— Get a general knowledge of the scheme by learning the 10 main classes [you will soon know the 100 divisions also without special study], so that you can tell to what subject a given number belongs from its first figure without referring to the tables. Specific knowledge of minute divisions will come gradually, but rapidly, from use. Using the tables alone, and then always verifying your result by the Index, you will more rapidly acquire knowledge of the classification and facility in its use. To do this, decide first to which of the 10 classes the subject belongs; next, take that class as if

there were no other, and decide to which of its 10 divisions the subject belongs; then, in the same way, select section and subsection, thus running down your topic in its grooves, which become tenfold narrower at each step. **As a check against error, use the index freely,** even tho familiar with the scheme.

Subject of a book.— To find out the subject of a book consult:—

1. **The title,** since it is generally chosen to show what the book is about. But as many titles are misleading, never class from title alone, but always examin also

2. **Table of contents,** which is the best guide to the true subject. If there is no table of contents read

3. **Headings of chapters,** or marginal topics.

4. **Preface.**— Unless already certain, glance thru this to catch the author's point of view, and verify impressions gaind from title and contents.

5. **Reference books.** — If preceding means fail, consult reliable bibliografies, clast and annotated catalogs, biografical dictionaries, histories of literature, cyclopedias, reviews, etc., for information about the character of the book.

6. **Subject-matter.**— If the five shorter methods above fail, examine the subject-matter of the book itself, and if still in doubt, to avoid mistakes, put aside on an "under consideration" shelf till you can examin more thuroly or consult

7. **Specialists.**— Experts, competent to define their true subject and relation, are usually glad to examin enough to class any new books in their departments. Old ones they know where to put already.

After deciding what the book is about, find this subject in the tables, either thru the Index or by using the tables directly, which for the beginner is a longer process, seldom to be trusted without subsequent reference to the Index; e. g. *Pollock's Land laws* might naturally be clast from the tables alone as "333, Land; ownership; rights; rent," which seems exactly to fit this book. The Index, however, shows two numbers, both referring to land laws, but from different points of view; viz. 347.2, legal, and 333, economic. The object of this book, as seen in the preface, is to give a popular presentation of English statutes pertaining to landholding, not to discuss the history and theory of land laws from the economist's point of view; and it should be clast "347.2, Realty," which might have been mist but for the Index.

Assigning class numbers.— 1. Practical usefulness is the chief thing. Put each book under the subject to the student of which it is most useful, unless local reasons "attract" it to a place still more useful in your library. See p. 27^9.

2. The *content* or the real subject of which a book treats, and not the *form* or the accidental wording of the title, determines its place.

Following this rule, put a philosophy of art with Art, not with Philosophy; a history of mathematics with Mathematics, not with History; for philosophy or history is simply the *form* which these books have taken. Their true content or subject is Art or Mathematics, and to the student of these subjects they are most useful.

3. Always remember that the question is not where one would probably look to find a particular book, but under what subject is the book of greatest value; e. g. it is of little consequence whether "one would be apt to look" under 595.1 for *Darwin's Formation of vegetable mould*, but of much consequence that one studying earth-worms should find that book in 595.1 Worms, since it is chiefly valuable as a study of the habits of earth-worms. Any one wanting that special book would look for it in the name catalog under Darwin.

4. Assign every book to the most specific head that will contain it. This will vary in different libraries according to the number of figures used, e. g. the specific head for "compulsory vaccination" is 614.4738; but in a library using only three figures, the most specific number possible is 614, which must take everything on Public health.

A library recently adopted the plan of putting all books of a division together, if they had but few; e. g. all mathematical works were markt 510. It took just as many figures, cost just as much labor in most cases, and, if a man wanted the one calculus in the whole library, he had to search through the 150 volumes in 510, when otherwise he would instantly have found it standing alone as 517. See also "Number of figures in class number," p. 28[7].

5. The predominant tendency or obvious purpose of a book usually decides its class number at once. Still a book often treats of two or more different subjects. In such cases assign it to the place where it will be most useful, and make references under all subordinate subjects. Give these reference numbers both on book plate and subject card, as well as on reference cards.

It is one of the markt advantages of the plan that these references, notes, etc., may be added from time to time as found convenient. It is necessary at first to find only the predominant tendency of the book in order to classify it. Subject references are added whenever found necessary.

Add these numbers indicating more closely the character of the book as rapidly as possible, and invite all specialists to call the librarian's attention to every desirable subject reference noticed in their reading. These numbers take little room, are easily added, and in most cases are very valuable.

6. If two subjects have distinct page limitations, class under the first, and make analytic reference under the second. But if the second is decidedly more important or much greater in bulk, class under that,

with reference under the first. Always put a book under the first subject, unless there is good reason for entering it under another.

7. Consider not only the scope and tendency of each book, but also the nature and specialties of each library.

Any subject of which a library makes a specialty naturally "attracts" allied subjects. This influence is strongest in minute classification. To admit this variation, many subjects in the present scheme have two or more places, according to these different sides; e. g. a book on "school hygiene," which a medical library puts under 613, has also a place in 371.7, where the educational specialist requires it.

8. If a book treats of a majority of the sections of any division, give it the division number, instead of the most important section number with subject references. Unless some one section is so prominently treated as to warrant placing the book in it, class a book on four or more sections under the division number; e. g. class a volume on light, heat, and sound, under the head most fully discust, and refer to it from the others; but if it treats also of mechanics, hydrostatics, and pneumatics, class as 530, or general physics, tho no mention be made of electricity, magnetism, or molecular physics.

9. To secure uniformity, make for future reference full notes of all difficulties and decisions; for it is of more importance to put books on the same subject together than to put them in the absolutely correct place.

These notes should be written either on the broad margins of the classification tables, or on an interleavd copy, or on P slips arranged by class numbers, like the clast catalog.

10. Keep collected works, libraries, etc., together, and assign like individual books to the most specific head that will contain them; or assign to the most prominent of the various subjects on which they treat, with subject references from the others; or separate and class the parts as independent works.

This last practice constantly grows in favor, and many librarians now largely disregard uniform bindings and "series" lettering, and, unless contents of volumes are so connected that they cannot be separated, class each under the most specific head that will contain it.

11. Class translations, reviews, keys, analyses, answers, and other books about specific books with the original book, as being there most useful.

Number of figures used in class number.— Decide this according to circumstances in each library. Small libraries often use the minute subsections beyond three figures only in certain divisions like Travel, 913–919 (where a closer geografical division is needed) and where a fourth figure is necessary in 400 and 800 to separate different languages.

In very small collections two figures might do till growth required further division; but it is economy, and saves handling the books a

second time to use at least three figures at first, even in the smallest collection. In larger or rapidly growing libraries all subdivisions may be used for the same reason, tho the number of books may not at the time seem to justify it. Whether there are one or 1,000 books on any topic, they take no more space on the shelves if clast minutely, and the work is done once for all. When large accessions come, even if a century later, this number will not have to be alterd. A library having but 20 books on Education might think it unwise to use the full scheme, but the whole 20 would go on a single shelf, and take no more room, and the Index would refer more accurately to what was wanted. The number of books you have on any subject has in this system no special weight. In a relativ location, any number of consecutiv topics without a book waste no space on shelvs or in catalogs. The numbers are merely skipt. This plan not only does no harm, but has the considerable negativ value that looking for the number and finding it blank or skipt, shows that you have nothing on the subject, — a piece of information second in value only to finding something, for one need no longer search.

The practical objection to close classing is that it gives a longer number to charge in a lending library. In a reference library full subsections should be used. Where a short number is imperativ, it is well to give the full class number on another part of the book plate, not to be used in charging, but as a guide to the contents of the book. Thus when the classifier has once examind a book, and found out just what it is about, the record is preservd for the benefit of others.

BUILDING NUMBERS

Geografical divisions.—In dividing by countries according to the note "Divided like 930–99," found so often in the tables, add only the number following initial 9, for this 9 means not locality but simply class 9, History; e. g. 942, history of England, analyzd is 9, history, 42, England (4 Europe, 2 England). If geology of England is wanted, add to 55 (the number for geology) 42 (the number for England), and you have 554.2. History of N. Y. state is 974.7, of which 747 is the locality number, and the number for N. Y. state administration, 353.9747, is built up by adding to 353.9 (the number for State administration) 747 (the number for N. Y. state).

Language and literature.—In 890, where the direction is to "divide like 490," note that 890, Minor literatures, and 490, Minor languages, correspond exactly, so that only the figures following 49 are to be added to 89 to build a minor literature number; e. g. Polish language is 491.85; adding 185 to 89, Minor literatures, gives 891.85 Polish literature. In brief, to form literature from philology numbers, substitute 8

present interest; e. g. if a town contemplates a new water supply, interest is greatly stimulated, and everything about water-works is wanted. The librarian has only to open his shelf list to 628.1 and 352.6 and print it. This great advantage is gaind with but slight variation from the form found best in its regular use as a shelf list for yearly examination of the shelves to detect losses and misplacements.

Accession book.— From the accession book, tables of the number of books added on each subject are readily made from the shelf mark colums. A glance at it shows the character, by subjects, of the books added during any given period, for, wherever this class number occurs, it tells not only where the book is shelvd but also what it is about.

Pamflets.— These class numbers applied to pamflets have proved specially satisfactory. The number is written on the upper left corner, and the pamflets are shelvd in pamflet cases side by side with books on the same subject, or they may be kept on special shelves divided every 10 cm. by perpendicular partitions. Little expense is incurd, and yet the entire pamflet resources of the library on any subject can be produced almost instantly. The immense advantages of this plan over those in common use, both in economy and usefulness, will be appreciated by every librarian in charge of a pamflet collection. A name or author catalog is made on slips if time allows. The pamflets themselves are the best subject catalog. Uncatalogd pamflets treating of any subject bear the same class number, and are arranged on the shelves in a case immediately before or after the books of each section, or, if preferd, each pamflet may be put in exact place as if bound.

The tendency grows to put all material under its class number on the regular shelves, for the same reasons that have led to giving up division by size of books. One examining a subject likes to see all the resources in one place so far as possible.

Sale duplicates.— The same arrangement is admirable here. They are so constantly changing that a catalog can hardly be afforded, and a subject arrangement on any other plan than this is difficult to maintain. Still, it is very essential that there be some means of knowing what duplicates there are on any given subject. By simply penciling the class number on the books and arranging them numerically, it is possible to give this information more quickly and more satisfactorily than by any other method, and at the same time with less expense.

Charging system.— Here as elsewhere it serves all ordinary purposes, with special advantages of its own. On the library accounts the character of each person's reading is clearly indicated by the numbers charged, and minutest statistics of circulation in any subject are made by simply counting the call slips in the register or check box, and entering the number against each class in the record. The whereabouts of any book wanted, or the amount of use of any subject, is seen at a glance. This decimal check box can be used in any system. Its

peculiar advantage with this classification is that it always exhibits, correct to the hour, a cómplete table of all books off the shelves in each subject. The slips in box 53 show just how many and what books are out in Physics; the slips under 823 show all the English novels in circulation, and who have them. Such a table of circulation always at hand, and without an item of expense or labor,—for the check box is necessary as a record of loans,—is highly prized by all interested in the character of books read, and at no time has so much wise attention been given to educating the taste of readers in our public libraries as at the present. To convert this table into permanent statistics involves only the trifling labor of recording as often as desired.

Subject references.— In no place are the peculiar advantages felt more than here. Many users of the system are undertaking analyses and cross references to an extent not hitherto thought practicable or hardly possible. These few figures tell as clearly as a long heading exactly what the reference is, while the gain in ease of use is even greater than the time and space saved in recording. The clearness and directness of the method aid wonderfully in this work. References to transactions, or chapters in essays, may be made in the most compact and usable form.

Recataloging.— When Amherst College in 1873 adopted the plan, and began to recatalog its library, it was found entirely practicable to make the change to the new system gradually, as means allowd, without interfering in any appreciable degree with the circulation of the books. The methods employd for thus changing without interrupting use must vary according to the different conditions of each case. The essential feature is some distinction between old and new call-numbers, sufficiently markt to be easily recognized by attendants. Since call-numbers ordinarily consist wholly of figures, the initial letter of the Cutter author-numbers furnishes this requisit. All numbers consisting of figures only are then recognized as belonging to the old, and all numbers containing a letter as belonging to the new system.

Adaptability.— The system is so flexible that it adapts itself to almost any circumstances. It may be used in almost any one of its applications without the others, and with a propórtionate result. It may be applied to pamflets alone, bringing order out of chaos, and solving this vext and vexing problem; or it may be used for the catalogs, leaving the arrangement on the shelves as before; or it may be applied to the shelves, while the catalog is on the dictionary or any other plan, and so on.

Arabic numerals.— Arabic numerals can be written and found quicker, and with less danger of confusion or mistake, than any other symbols. Therefore, Roman numerals, capitals and small letters, and similar symbols usually found in systems of classification, are entirely discarded, and by exclusiv use of Arabic numerals thruout the shelves,

indexes, catalogs, and records, there is secured the greatest accuracy, economy, and convenience. This advantage is specially prominent in comparison with systems where the name of the author or the title must be written, in calling for or charging books and in making references.

Endowment of special departments.— Another great advantage of this plan is its peculiar adaptability to the plan of endowing special departments. One specially interested in any subject can often be induced to endow that subject with a sum, of which the income shall each year buy all the best books that appear on it.

If John Doe is specially interested in the opera, the library says to him: "Give us $1000 as an endowment of 782, and we will call it the Doe Library of Dramatic Music. There will be found every book, pamflet, newspaper clipping, or ms. that the library has or can get on this subject. Gifts from others will be placed in the Doe Library, the donor's name being given on the book-plate, and for generations to come every person interested in the opera will be grateful for your foundation." In this way 782 is assignd to John Doe, and his pride is stimulated in developing it. If another man with larger means and interest will endow the whole subject of music 780, there is no difficulty or impropriety in including 782, the Doe Dramatic Music Library as the second section of 780, the Roe Music Library.

This is one of the most promising fields for development, for almost every library has among its readers some specially interested, who if properly approacht would endow some topic, even if a small one, and this relativ location, with its definit number expressing just the ground coverd, may be of great service in working up this plan of special endowments.

Summary.— The claims of the system may be sumd up as follows: Compared with other systems it is less expensiv; more easily understood, rememberd, and used; practical rather than theoretical; brief and familiar in its nomenclature; best for arranging pamflets, sale duplicates, and notes, and for indexing; susceptible of partial and gradual adoption without confusion; more convenient in keeping statistics and checks for books off the shelves; the most satisfactory adaptation of the card catalog principle to the shelves. It requires less space to shelve the books; uses simpler symbols and fewer of them; can be expanded, without limit and without confusion or waste of labor, in both catalogs and on shelves or in catalogs alone; checks more thuroly and conveniently against mistakes; admits more readily numerous cross references; is unchangeable in its call numbers, and so gives them in all places where needed, as given in no other system; in its index affords an answer to the greatest objection to clast catalogs, and is the first satisfactory union of the advantages of the clast and dictionary system.

SUGGESTIONS TO USERS

In referring to tables, hold the book in the right hand and turn with the left, then the class numbers show very plainly on the left margin and reference is greatly expedited. Some prefer to hold the book in the left hand, but in any case the eye should follow the left pages holly.

PLAN OF BOOK

Tables.— The first page of tables shows the 10 classes into which all topics are divided. The next page, showing the nine divisions of each of the 10 classes, is a bird's-eye view of the whole scheme on a single page. Then follows a synoptic view of 10 pages, one for each class, showing the nine sections of each division of each class.

Following these synopses is the complete classification, which repeats in proper order classes, divisions, and sections, with all their subsections. For the convenience of the user, who thus gets a fuller and clearer idea of the field which each number covers, synonymous terms, examples, brief notes, dates, and various catch-words are often added to the main heads. Therefore all references to numbers **should be lookt up in the full tables** of subsections, using the summaries when only a synoptic view is wanted.

Index.— Next is an alfabetical index of all the heads, referring by class number to the exact place of each in the preceding tables. This Index includes also, as far as found, all synonyms or alternativ names for heads, and any other entries that seemd likely to help a reader find his subject readily. Tho the user knows just where to turn to his subject in the tables, if he consults the Index, he may be sent also to other allied subjects, where he will find valuable matter which he might otherwise overlook.

Numeration.— In thinking or speaking of the class numbers, to avoid confusion **always divide at the decimal point, and name it**; e. g. read 942.27 "nine forty-two, point twenty-seven," never "ninety-four two twenty-seven." If "point" were omitted, the ear might readily interpret 270.2 as 272, while "two seventy, point two" can never be misunderstood.

Familiarity with classification.— Get a general knowledge of the scheme by learning the 10 main classes [you will soon know the 100 divisions also without special study], so that you can tell to what subject a given number belongs from its first figure without referring to the tables. Specific knowledge of minute divisions will come gradually, but rapidly, from use. Using the tables alone, and then always verifying your result by the Index, you will more rapidly acquire knowledge of the classification and facility in its use. To do this, decide first to which of the 10 classes the subject belongs; next, take that class as if

there were no other, and decide to which of its 10 divisions the subject belongs; then, in the same way, select section and subsection, thus running down your topic in its grooves, which become tenfold narrower at each step. **As a check against error, use the index freely, even** tho familiar with the scheme.

Subject of a book.— To find out the subject of a book consult:—

1. **The title,** since it is generally chosen to show what the book is about. But as many titles are misleading, never class from title alone, but always examin also

2. **Table of contents,** which is the best guide to the true subject. If there is no table of contents read

3. **Headings of chapters,** or marginal topics.

4. **Preface.**— Unless already certain, glance thru this to catch the author's point of view, and verify impressions gaind from title and contents.

5. **Reference books.** — If preceding means fail, consult reliable bibliografies, clast and annotated catalogs, biografical dictionaries, histories of literature, cyclopedias, reviews, etc., for information about the character of the book.

6. **Subject-matter.**— If the five shorter methods above fail, examine the subject-matter of the book itself, and if still in doubt, to avoid mistakes, put aside on an "under consideration" shelf till you can examin more thuroly or consult

7. **Specialists.**— Experts, competent to define their true subject and relation, are usually glad to examin enough to class any new books in their departments. Old ones they know where to put already.

After deciding what the book is about, find this subject in the tables, either thru the Index or by using the tables directly, which for the beginner is a longer process, seldom to be trusted without subsequent reference to the Index; e. g. *Pollock's Land laws* might naturally be clast from the tables alone as "333, Land; ownership; rights; rent," which seems exactly to fit this book. The Index, however, shows two numbers, both referring to land laws, but from different points of view; viz. 347.2, legal, and 333, economic. The object of this book, as seen in the preface, is to give a popular presentation of English statutes pertaining to landholding, not to discuss the history and theory of land laws from the economist's point of view; and it should be clast "347.2, Realty," which might have been mist but for the Index.

Assigning class numbers.— 1. Practical usefulness is the chief thing. Put each book under the subject to the student of which it is most useful, unless local reasons "attract" it to a place still more useful in your library. See p. 27[9].

2. The *content* or the real subject of which a book treats, and not the *form* or the accidental wording of the title, determines its place.

Following this rule, put a philosophy of art with Art, not with Philosophy; a history of mathematics with Mathematics, not with History; for philosophy or history is simply the *form* which these books have taken. Their true content or subject is Art or Mathematics, and to the student of these subjects they are most useful.

3. Always remember that the question is not where one would probably look to find a particular book, but under what subject is the book of greatest value; e. g. it is of little consequence whether "one would be apt to look" under 595.1 for *Darwin's Formation of vegetable mould*, but of much consequence that one studying earth-worms should find that book in 595.1 Worms, since it is chiefly valuable as a study of the habits of earth-worms. Any one wanting that special book would look for it in the name catalog under Darwin.

4. Assign every book to the most specific head that will contain it. This will vary in different libraries according to the number of figures used, e. g. the specific head for "compulsory vaccination" is 614.4738; but in a library using only three figures, the most specific number possible is 614, which must take everything on Public health.

A library recently adopted the plan of putting all books of a division together, if they had but few; e. g. all mathematical works were markt 510. It took just as many figures, cost just as much labor in most cases, and, if a man wanted the one calculus in the whole library, he had to search through the 150 volumes in 510, when otherwise he would instantly have found it standing alone as 517. See also "Number of figures in class number," p. 287.

5. The predominant tendency or obvious purpose of a book usually decides its class number at once. Still a book often treats of two or more different subjects. In such cases assign it to the place where it will be most useful, and make references under all subordinate subjects. Give these reference numbers both on book plate and subject card, as well as on reference cards.

It is one of the markt advantages of the plan that these references, notes, etc., may be added from time to time as found convenient. It is necessary at first to find only the predominant tendency of the book in order to classify it. Subject references are added whenever found necessary.

Add these numbers indicating more closely the character of the book as rapidly as possible, and invite all specialists to call the librarian's attention to every desirable subject reference noticed in their reading. These numbers take little room, are easily added, and in most cases are very valuable.

6. If two subjects have distinct page limitations, class under the first, and make analytic reference under the second. But if the second is decidedly more important or much greater in bulk, class under that,

with reference under the first. Always put a book under the first subject, unless there is good reason for entering it under another.

7. Consider not only the scope and tendency of each book, but also the nature and specialties of each library.

Any subject of which a library makes a spccialty naturally "attracts" allied subjects. This influence is strongest in minute classification. To admit this variation, many subjects in the present scheme have two or more places, according to these different sides; e. g. a book on "school hygiene," which a medical library puts under 613, has also a place in 371.7, where the educational specialist requires it.

8. If a book treats of a majority of the sections of any division, give it the division number, instead of the most important section number with subject references. Unless some one section is so prominently treated as to warrant placing the book in it, class a book on four or more sections under the division number; e. g. class a volume on light, heat, and sound, under the head most fully discust, and refer to it from the others; but if it treats also of mechanics, hydrostatics, and pneumatics, class as 530, or general physics, tho no mention be made of electricity, magnetism, or molecular physics.

9. To secure uniformity, make for future reference full notes of all difficulties and decisions; for it is of more importance to put books on the same subject together than to put them in the absolutely correct place.

These notes should be written either on the broad margins of the classification tables, or on an interleavd copy, or on P slips arranged by class numbers, like the clast catalog.

10. Keep collected works, libraries, etc., together, and assign like individual books to the most specific head that will contain them; or assign to the most prominent of the various subjects on which they treat, with subject references from the others; or separate and class the parts as independent works.

This last practice constantly grows in favor, and many librarians now largely disregard uniform bindings and "series" lettering, and, unless contents of volumes are so connected that they cannot be separated, class each under the most specific head that will contain it.

11. Class translations, reviews, keys, analyses, answers, and other books about specific books with the original book, as being there most useful.

Number of figures used in class number.— Decide this according to circumstances in each library. Small libraries often use the minute subsections beyond three figures only in certain divisions like Travel, 913–919 (where a closer geografical division is needed) and where a fourth figure is necessary in 400 and 800 to separate different languages.

In very small collections two figures might do till growth required further division; but it is economy, and saves handling the books a

second time to use at least three figures at first, even in the smallest collection. In larger or rapidly growing libraries all subdivisions may be used for the same reason, tho the number of books may not at the time seem to justify it. Whether there are one or 1,000 books on any topic, they take no more space on the shelves if clast minutely, and the work is done once for all. When large accessions come, even if a century later, this number will not have to be alterd. A library having but 20 books on Education might think it unwise to use the full scheme, but the whole 20 would go on a single shelf, and take no more room, and the Index would refer more accurately to what was wanted. The number of books you have on any subject has in this system no special weight. In a relativ location, any number of consecutiv topics without a book waste no space on shelvs or in catalogs. The numbers are merely skipt. This plan not only does no harm, but has the considerable negativ value that looking for the number and finding it blank or skipt, shows that you have nothing on the subject, — a piece of information second in value only to finding something, for one need no longer search.

The practical objection to close classing is that it gives a longer number to charge in a lending library. In a reference library full subsections should be used. Where a short number is imperativ, it is well to give the full class number on another part of the book plate, not to be used in charging, but as a guide to the contents of the book. Thus when the classifier has once examind a book, and found out just what it is about, the record is preservd for the benefit of others.

BUILDING NUMBERS

Geografical divisions.—In dividing by countries according to the note "Divided like 930–99," found so often in the tables, add only the number following initial 9, for this 9 means not locality but simply class 9, History; e. g. 942, history of England, analyzd is 9, history, 42, England (4 Europe, 2 England). If geology of England is wanted, add to 55 (the number for geology) 42 (the number for England), and you have 554.2. History of N. Y. state is 974.7, of which 747 is the locality number, and the number for N. Y. state administration, 353.9747, is built up by adding to 353.9 (the number for State administration) 747 (the number for N. Y. state).

Language and literature.—In 890, where the direction is to "divide like 490," note that 890, Minor literatures, and 490, Minor languages, correspond exactly, so that only the figures following 49 are to be added to 89 to build a minor literature number; e. g. Polish language is 491.85; adding 185 to 89, Minor literatures, gives 891.85 Polish literature. In brief, to form literature from philology numbers, substitute 8

in place of the first figure 4; e. g. Sanskrit language 491.2, Sanskrit literature 891.2.

If the direction is to "divide like the main classification," as in 016, the number for the required subject is added exactly as it stands in the tables; e. g. bibliografy of Polish poetry, 016.891851.

Combining numbers in a way not printed in the tables must be done with great care or confusion results. Many users, fascinated with the possibilities of the system, make combinations more ingenious than useful; e. g. "the horse's foot and how to shoe it" was recently markt 636.1682, i. e. the blacksmithing number, 682, being added to the horse number, 636.1, making a very long, useless number. Horse-shoeing is now added to the tables as 682.1. Often it seems well to the classifier to add a figure to show some distinction. It is short and desirable, but later he may find he has shut himself off from using some other division which he would greatly prefer. Every added figure must be clearly written in the tables and index, for no man's memory can be trusted. See 9, p. 28; and Cautions, p. 31.

BOOK NUMBERS

Author numbers.—The invention of translation systems by which a name is represented by its initial with the rest translated into numbers, — e. g. Freeman, F 87,— has led most libraries to arrange books under each class number alfabetically by authors, or in local history by towns, or in biografy by biografees. This keeps all works by the same author together, and in large classes enables one to find any book readily without consulting catalogs. One great advantage is that the same author has the same book number in every subject; i. e. the figures are significant like our class numbers, and translate themselves into the name. Great practical mnemonic convenience results from this peculiar form of book number. By far the most widely used of these translation systems is that of the Boston Athenæum, devised by the librarian, C: A. Cutter, and known as the Cutter numbers.

Time numbers.— A second arrangement of books under class numbers is chronological by dates of first publication. Its advantage is in presenting the historical development of the subject, the book written earliest being on the left, the latest work on the right, and then of any given book it is evident that all those on the left were written before it, all those on the right after it. In science this has special value, while in literature the author arrangement is better. A translation system of dates devised by W. S. Biscoe, makes the numbering of the year more compact and satisfactory than to write the date in full.[1]

[1] Full explanations of the best methods for both arrangements, with complete tables, can be had of the publishers of this work.

Accession order.— A third arrangement — simpler but otherwise less desirable — is in order of accession; the first book in a class being 1, the second 2, the third 3.

It is entirely practicable to use two or even all three of these methods at the same time in the same library, one peculiarity of the system being the ease with which it may be adapted to almost any special circumstances. In fact, we use the chronological system in science where its advantages are most markt; the alfabetical system in literature where authors' names outrank dates; the old accession-order plan in special collections, which must be kept separate, and are no longer added to, since here the extreme simplicity of the 1, 2, 3 order is secured without any sacrifice. It is still better, if this last method is used, to number A, B, C, instead of 1, 2, 3, as 26 instead of nine books may be markt with one character, and chiefly, as it is highly desirable that each book number should begin with a letter which cannot be mistaken for the end of a class number, if the two are written on one line; e. g. the first book under 513, if numberd 1, might be so written as to confuse with subsection 513.1, but 513 A could not be misinterpreted. If figures are used, care must be taken to write them as a fraction or with a mark of separation; e. g. $5\frac{1}{1}3$ or 513–1.

VARIATIONS PRACTICABLE IN ADJUSTING TO SPECIAL LOCAL REQUIREMENTS

Some users assume that adoption of the Decimal Classification and Relativ Index carries with it other parts of the system which the author has used at Amherst, Wellesley, or Columbia colleges or in the New York State Library. In fact, the plan in each of these libraries differs somewhat from all the others, and many of the 200 public and private libraries now using the plan have adopted still other variations; for the special constituency, circumstances, and resources of each library must be considerd in deciding what is best for it. This decision should be made by one familiar, not only with the library and its needs, but also with all methods of any merit and the comparativ ease and cost of introducing them into any given library.

Cautions.— Having decided to adopt the system in its decimal form as workt out and printed, it must be determind whether to adopt certain variations, noted in 1–5 below as practicable, and in some cases useful and desirable. The inexperienced user is very likely to feel entirely competent, after once reading the tables (in fact, without reading more than a single page regardless of its bearings on hundreds of other places, and without so much as looking at the author's explanations), to institute a series of "improvements." Experience proves that nothing could be more disastrous. It seems a simple

matter to put a topic a line higher or lower, but in some cases this may affect over 100 different entries in the Index, and there is no possible way to be sure of correcting them except by examining each one of the 20,000 heads. Frequently proposed changes, carefully studied out and submitted as improvements, are shown by our old records to have been adopted and used in the exact form proposed till considerations which had not been foreseen forced us to change to the form as printed. Even after years of experience one is not safe in pronouncing on an apparent improvement without consulting the voluminous records of previous experiments.

Those who have used the system longest have been misled into adopting changes which on trial they were compeld to reject, going back to the original form at the cost and confusion of two changes. In so apparently simple a thing as introducing subdivisions on blank numbers, mistakes have often been made; and after it was too late to correct them the makers have regretted their neglect to consult the author and secure the advice and coöperation of those most familiar with the manifold inter-relations. Even were the independent divisions equally good, their numbers do not agree with those which will be put in the printed tables and index, so that every copy of the printed scheme will have to be corrected in ms. before it is usable in that library. The only safe rule is to make no changes or subdivisions without submitting them to the author, who will gladly advise on such matters without charge, not on the ground of any superior wisdom, nor even because of larger experience in this special work, but because in this way only can it be learnd if numbers have been already assignd with different meanings.

The user who adopts the printed form avoids the criticism sure to be aimd at any possible scheme. The moment he makes one "improvement" he must defend all the heads or alter them to suit each critic. Much time is saved by saying that the scheme is used as printed, and blunders are the author's, not the user's. A list of changes that have been made by others without such consultation was written for this note, but is omitted lest it should seem invidious. They illustrate how easy it is for able men to make what no one questions after explanation to have been outright blunders, in improving and adding to the printed scheme. The author is always grateful for suggestions from any one, and, having already given so much time in the effort to improve this system for the common good of all users, he invites the coöperation of those interested in completing needed subdivisions and eliminating any errors that may remain either in tables or index.

The following brief notes show the most important variations found practicable in the "relativ index system," oftener called the "Dewey system." For its essentials see p. 8[7]–9.

1. **Letter notations for changes.**—To protect other users from confusion, the publishers insist, as the copyright entitles them to, that our numbers shall not be printed with changed meanings without some clear indication of the fact in the number itself. If the reasons that led us to adopt the form printed are not conclusiv to another, we wish to remove any obstacles to his use of the system with such changes as shall satisfy him. This can be readily done by using a letter, or some other character than the 10 digits, to mark changes; e. g., if you wish a different set of subdivisions under any number, make it out to suit, and number it a, b, c, etc. It will arrange in its exact place and exact order without difficulty, and no other user of the system will be confused by the numbers. In the index, cancel the 1, 2, 3, etc., you have discarded, and write in the a, b, c, etc., adopted. **Whenever you use our exact numbers, use also our meanings for them as indext.** When you add any features of your own, add new numbers of your own that cannot be mistaken for ours, using, of course, as many of our figures as are not changed; e. g., if you want a new heading next to 551.34, Icebergs, it cannot properly go as decimal 1. Mark it 551.34a, and it arranges as wisht. If you wish to change a head from one place to another, cancel it where it stands, and *leave that number blank* in the tables. Then insert the head in its new place as above, as if it had never been in the tables.

This plan of introducing letters or other symbols wherever each user pleases, will give all needed freedom to the personal equation and desire for originality, and meets all real wants for peculiar classification in peculiar cases.

Fiction and juvenils.—In some cases it is usually best to modify class numbers by letters as above. In popular libraries half of the circulation is often in fiction. A great saving is effected here by omitting the class number entirely and using merely the book number, it being understood that *no* class number means fiction. After fiction, their great circulation makes juvenils a good place to economize, if they are kept separate, as is usually thought desirable in popular libraries. The books are clast exactly as if for adults, then a J is prefixt to show their special character. This gives J alone as the class number for juvenil fiction, and e. g., J942, for a child's history of England. These are arranged in a parallel library by themselves, so that J942 comes between J941, juvenil history of Scotland, and J943, juvenil history of Germany.

If at any time it seems desirable to abandon the separate J library, it can be done, without altering a number, by distributing the J books among the regular classes, either ignoring the J entirely, or preferably by putting all the J books by themselves at the end of each class number.

There are thus three methods: 1, to have a separate J library; 2, to have the J books by themselves at the end of each class number; 3,

to have the J books in alfabetical order among other books on the same subject. In this last case the J is useful only to call attention plainly to their juvenil character.

The same marking is used for all these plans, and one can be changed into the other by simply distributing the books the other way, and telling the attendants that it has been done. Juvenil books go with adult books of the same class, unless a special J library is made, containing all juvenils.

Biografy.— A similar plan is recommended for this large class, as to the best treatment of which there is great difference of opinion.

Beside the plan printed in the tables, two others are recommended, viz.; to put all biografies in one alfabet of names of *persons written about*, marking all the books simply B for class number, and indicating the subject or biografee by a Cutter book number; e. g. life of Grant, B G76. This is most compact for charging, and is preferd in popular libraries of large circulation.

The third plan is to distribute biografy as far as possible to the subjects it illustrates, leaving, of course, under 920 lives not bearing specially on any subject; e. g. all lives of musicians go under 780 and its subdivisions, the life of Wagner being 782.2 instead of 927.82 as in the tables. Even in this arrangement it is better to indicate that it is biografy, putting B in place of the biografy figures 92; i. e. mark Wagner's life B782.2 (927.822). Then it arranges either with 782.2 or with biografy, as preferd, thus giving exactly the arrangement of the printed classification without changing a figure.

Travel.— By using T instead of B, the same principle gives a brief call number for the largely circulated class, description and travel.

Parallel libraries.— This treatment of fiction, juvenils, and biografy illustrates the principle. Its other chief application is for language collections. Some libraries have a constituency not reading English, and so need a parallel library in German, or Swedish, or French, etc. This is most easily made by simply prefixing an initial to the class number. If to be arranged, as with us, in one series of subjects, this may be ignored, or all German books on each subject may be groupt under G at the end of each class number. The German parallel library is made by simply putting all G's together and arranging by class numbers. The initials used are G, German, F, French, I, Italian, Sp, Spanish, Sw, Swedish, Dn, Danish, Du, Dutch, N, Norwegian, R, Russian, W, Welsh, A, Arabic, etc. Where only one language is so markt in a given library, only one letter should be used, so as to avoid an extra letter in charging; e. g. S will answer either for Spanish or Swedish if used in only one sense. This plan has proved very satisfactory in actual use.

Combining language and literature.— The same principle can be applied also in combining each language with its literature, if it is

preferred to abolish the class, Philology, and make it simply an appendix to Literature; and the reverse would hold true if a philologist wisht to abolish Literature and make it an appendix to Philology; e. g. using 82p for English philology, and adding philology subdivisions, English dictionaries would become 82p3, English grammars 82p5, etc., and arrange either just before (or just after) English literature, 820, 821, etc. For a better plan see Broken order, p. 36[7]–37[4].

Reference library.— To separate books most needed, the best plan is to mark R before class numbers, and arrange the books together, as an R library. When the books are to go into the general collection again, a line can be drawn thru this letter. In the same way it often happens that a general private library is given on condition that it be kept together; e. g. the Phœnix library of Columbia College. This has P prefixt to the class number, and thus is a parallel library by itself. An initial is better in such cases than a * or similar mark, since the initial helps the memory and is just as brief. The same plan applies of course if the library has an "inferno" for books not used without permits, or more distant rooms where books worth keeping but seldom called for can be arranged in a parallel storage library.

Still another provision is made in 080, 8 being the regular number for general collections (as in 508, 520.8, etc.), for these special libraries which cannot be separated because of binding or conditions of gift. But instead of the three figures in 080, a single letter, as described above, indicates the special collection, and it is easy to learn the location of the few special collections of any one library. Omission of initial 0 in the class "General works" was formerly recommended; e. g. 51 instead of 051 for an American periodical. But this usage is no longer advised, for the eye gets so in the habit of reading as *Science* any number beginning with 5, that there is a little mental hitch if, e. g., general periodicals are written 51, etc., instead of 051, etc.

Another reason is that the one and two figure numbers 1–99 are thus left available, and can be assignd to special use without confusion with tables or Index, for initial 0 is there printed for all numbers before 100. Yet in classification it sometimes happens that the first two figures are obvious at a glance, but time must be taken to determin the third. It is convenient to write these first figures, but if a mathematical book receives its first two figures (51), this unfinisht number is liable to be confused with the two-figure number 51. This danger may be largely avoided by writing the decimal point after a blank; e. g. 51 ., to snow that a figure is omitted.

2. **Contractions for specialists.**— The system is often used by specialists for very minute work when the decimals are run out to six or eight places. While the theory is better to write all these figures, thus showing the relation to the universe of knowledge, there is no

practical gain to justify the labor if a great quantity of slips must be numberd. A specialist working on "Swedish poetry of the age of Gustavus" can use a single letter instead of the full 839.715 and save five characters in numbering each note; or a dash may be written for all but the last figure, thus "—5". A body of such notes can be inserted together in their place in an index at 839.715, with a colord card to mark the special groups, with little danger of confusion. Still many prefer the theoretical completeness of writing a full index number for every separate slip.

3. **Use of alfabet or chronology for final subdivisions.**— While our plan is decimal as distinguisht from the "dictionary system," we never hesitate to use the alfabet wherever that is more useful. Indeed, the main feature of our plan is its alfabetical index. Frequently in minute divisions it is economy to arrange alfabetically or by dates without using a translation system. This is specially true in index rerums and notes of specialists. After numbers have been used as far as that is the most useful form, then either the name chosen for the head or the year can be inserted at the end; e. g. towns in a given state, individual birds or insects coming under one number, names of men written about in biografy, etc. Some may prefer to adopt this plan in places where we have chosen a grouping; e. g. in chemistry, to put all the metals in one alfabet under 546.3, instead of using the numbers 546.3–.99. If this change is wisht, a more complete one will probably be better; viz. to put all the elements, non-metallic and metallic, in one alfabet under 546. Such use of the alfabet causes no confusion with the index, as it is simply subdividing more closely, unless, as in the last case (546.3), the alfabet replaces heads already printed. In this case, cancel all subsections in the tables by drawing a line obliquely thru the heads discarded, and mark in the margin "arranged alfabetically by elements," e. g.:—

546.3	**Metals.**	**Arrange metals alfabetically.**
~~·31~~	**Alkali group.**	
·32	**Potassium.**	
·33	**Sodium.**	
·33	**Lithium.**	
·34	**Rubidium.**	
·35	**Caesium.**	

Then find each of these heads in the index and cancel all figures after 546.3, e. g.:—

Potassium, inorganic chemistry, 546.32
Rubidium, " " 546.35

This plan has special value in this place, as new elements are discoverd from time to time, and can readily be inserted in alfabetic place. Still many chemists think it valuable to have similar metals groupt together for convenience of study, and to cover books written on the group as a whole, and also think it important to have a number

for rejected elements, because the literature and references about them remain, and must be provided for. The insertion of new elements is provided for, as explained on p. 14[4].

4. **Broken order.**— Another common and often desirable variation for shelf arrangement is to break the sequence of the numbers, in order to get books most used nearest the delivery desk. The theory is to keep the whole 1000 numbers in strict sequence; but a higher rule to be obeyed everywhere is to sacrifice any theory for a substantial gain. Practically it will seldom happen that it is not best to break the order of the classes. Often divisions are best arranged out of numerical place; e. g. 520 Astronomy may be wanted in a room accessible at night; fiction, juvenils, and biografy are always wanted near the delivery desk in a public library, and in strict order are as likely to come at the most distant point. Numberless local reasons may make a broken order desirable. There need be no hesitation in adopting it if enough is gaind, but there should be charts clearly showing where each division starts; e. g. after 430 "Preceding 830;" after 520 "In observatory," it being necessary to specify room for books entirely removed from the general library arrangement. The page of 100 divisions is reprinted by the publishers, on cards with wide margins, for just this use. Opposit each division is markt its beginning on the shelves, and it is easy to vary the order as much as necessary, tho of course the nearer the divisions run in regular order 1 to 99, the easier it is for a stranger to find his way about. Variations in the order of the sections are less wise and seldom necessary. If made, a wood or card-board dummy in the regular place should have markt on its side the present location of the section removed.

This broken-order plan is best for bringing together the philology and literature of each language without altering numbers or prefixing any letter. Let 420 be shelvd just ahead of 820, 430 ahead of 830, and so for all languages, making the general note that all 400's are shelvd just ahead of the corresponding 800's, and remembering that after the main languages four or more figures are required to indicate language alone, so that Portuguese philology goes between 868 and 869, Russian between 891.69 and 891.7, and Welsh between 891.65 and 891.66.

5. **Pro and con division of topics.**— It is very useful in many cases to separate the books on a topic with strongly markt sides, so that either set of views and arguments may be seen by itself. This has been done by subdivision in some cases,— e. g. 337, Protection and Free trade. In others it is equally useful, and can be indicated by an added mark,— e. g. 324.3, Woman suffrage. The number may be used for general works, giving facts, etc., and advocates and opponents may be separated by + and — for positiv and negativ, or by p and c, the initials for pro and con, which tho short, are too long for a circulat-

ing library to charge. In reference libraries, on cards, etc., most will prefer to write out *pro* and *con*, to distinguish the two groups. The order on the shelves is, of course, alfabetical, viz. 324.3, 324.3c, 324.3p; or if + and — ar used, the usual order is followed: +, —.

These five notes suggest the range of variations that may be made in the Decimal Classification and illustrate its adaptability to widely different conditions. For book numbers which decide the order of material after it is groupt into its final classes, see page 30.

OTHER USES

Tho the system was devised for library catalog and shelf arrangement, 17 years have developt many new applications. Nearly every administrativ department feels directly the great economy, and in every field of literary activity this classification has been found a labor-saving tool, whose practical usefulness has exceeded the most sanguin hopes of its early friends.

Bookstores.—The plan is a great convenience to both dealers and customers, when applied to the miscellaneous stock of a bookstore. Very often a much wanted book, specially if not recently publisht, is reported "not in stock," when such an arrangement by subjects would have reveald its place at once. Specialists often find on the shelves books that they would never have orderd, but are glad to buy after examination. Experience proves it a profitable thing for a dealer to arrange his books so that each person may find those in which he is interested without examining the entire stock.

Scrap-books.—The plan has proved of great service in preserving newspaper clippings. Scrap-sheets of uniform size are used, with the class number of the subject written in the upper corner of the front edge of the page, and clippings are mounted on the sheet as in a common scrap-book. When one sheet is full, another is inserted at the exact place. Thus perfect classification is kept up without blank sheets, and at the smallest outlay of money and trouble. This "L. B. Scrap Book" is for most persons the best form. These sheets are then arranged numerically like the subject card catalog, the sheets of each class being farther arranged, when desirable, under alfabetic subheads. Scraps thus mounted are shelvd either in manila pamflet cases or in patent binders.

Index rerums.—These are best made on the standard P size (7.5 x 12.5 cm.), card or slip. Long study and experience prove that the stock "L200" is best for private indexes, etc. It costs only half as much as the "Br. 400," which is largely used for public library catalogs, takes only half the room, and gives great satisfaction. The class number is written in the upper left-hand corner, any alfabetic subject head follows at the right, and notes fill the card below. The cards are then filed in order of class numbers like the subject card catalog,

the cards of each class being further arranged, as in case of the scrap sheets, according to any alfabetical subheads. Scores of devices for convenient handling and storage of these slips and of scrap sheets and pamflets are already manufactured. Details cannot be given here, but may be found in the full descriptiv and illustrated catalog of the Library Bureau, 146 Franklin street, Boston.

Another admirable form is similar to the L. B. Scrap Book or shelf list; in fact, is simply a shelf list without the printed headings and down lines. The subject number goes in the upper corner, and all notes on that subject are written on the sheet below. This book fits an ordinary shelf, has the advantage of a full letter page in sight at once, and holds over five times as much as the P card. Of course the system can be applied to slips or sheets of any size, but there are literally hundreds of accessories and conveniences exactly adapted to these two sizes, which are used tenfold more than all others combined; so it is folly for one to begin on another size, and lose the advantages of this uniformity. If intermediate sizes must be had, the ones most used and least objectionable are Billet 10x15 cm., Note 12½ x 20 cm., and Ms. 15 x 25 cm. There are repeated cases where users of some other size have finally found it profitable to change to either the P,7½ x 12½, or to the L,20 x 25 cm., even at the cost of re-writing many notes.

Note books are best in this last described form. The much poorer method is to take a bound blank book, and assign the class numbers in order, giving about the space it is thought each will require, and, when the pages so assignd are full, note at the bottom where the rest of the material may be found.

This has all the objections of the old fixt location as compared to the relativ, and will hardly be adopted by any person who has ever seen the simplicity and economy of the shelf-list system.

Topical indexes.—The class numbers are used in indexing books read, usually by making the entries in the Index Rerum under proper numbers. The number takes the place of a series of words, and the results can be handled, arranged, and found much quicker because of the simple numerals.

The advantages that the system possesses for making topical indexes of collected works, periodicals, transactions, etc., will be evident to every librarian. These consolidated indexes may be arranged together with the card catalog of the books, or by themselves, as seems best in each case.

It would exceed the limits of this brief description to notice all the varied applications of the system. Enough have been mentiond to show its wide adaptability to the wants of the librarian and the student.

Tho much elaborated and in some points alterd, the essential character of the plan has remaind unchanged from the first. Doubtless

other improvements are still possible, and users of the scheme are invited to suggest any needed new heads, and to note any omission to be supplied in the Subject Index.

In this brief account the author has probably faild to meet some objections which may be raisd, and which he could easily answer. He therefore asks the privilege of replying personally to any such objections, where they arise, believing that it will be possible to answer, if not all, at least a very large proportion.

The labor involvd in preparing the Classification and Index has been wholly beyond the appreciation of any who have never attempted a similar task. Much valuable aid has been renderd in many departments by specialists, over 100 of whom have assisted in developing the scheme. Among these are many well-known scholars, and to all a most cordial acknowledgment is made. Without such assistance, the present edition could not have been made, for many minds were necessary to supply the technical and special learning absolutely necessary in filling the minute heads. Indeed, in many subjects the author's share in the work has been limited to the modification necessary for technical adjustment to his scheme of the material prepared by specialists. To many prominent librarians the author is indebted for valuable suggestions and appreciativ criticism. While these friends are in no way responsible for any remaining imperfections, they should have credit for many improvements in the scheme made in these 17 years of revision, during the first three of which it was kept in manuscript, in order that its many details might be subjected to actual trial, and modified where improvement was found possible.

In all the work from its first publication to the present, the most extended and valued assistance has come from my college classmate, associate, and friend, Walter Stanley Biscoe, my first assistant in Amherst College Library, in the charge of which he succeeded me, resigning to accept again in 1883 the place next me in the Columbia College Library, and again resigning in 1889 to become Librarian in charge of Classification and Catalogs in the New York State Library. Of the rare unselfishness with which he has given time taken from rest and recreation to advancing work in which he shared my interest, this book is the best witness.

In his varied reading, correspondence, and conversation on the subject, the author has doubtless receivd suggestions and gaind ideas which it is now impossible for him specifically to acknowledge. The *Nuovo sistema di catalogo bibliografico generale* of Natale Battezzati, of Milan, adopted by the Italian publishers in 1871, tho he has copied nothing from it, more than any other single system stimulated the author's study of the problem. The plan of the St Louis Public School Library and that of the Apprentices' Library of New York, which in some respects resemble his own, were not seen till all the essential

features were decided on, tho not given to the public. In filling the nine classes of the scheme, the inverted Baconian arrangement of the St Louis Library has been followd. The author has no desire to claim original invention for any part of his system where another has been before him, and would most gladly make specific acknowledgment of every aid and suggestion were it in his power to do so.

With these general explanations and acknowledgments he submits the scheme, which has cost so much time and strength, with the hope that it may prove as useful to others as it has to himself. It is a little book, but it came not forth except by grievous labor.

MELVIL DEWEY

NEW YORK STATE LIBRARY
Dec. 25, 1890

The previous editions have been dated Amherst College Library, June 10, 1876; Columbia College Library, Aug. 10, 1885; and Columbia College Library, Aug. 30, 1888.

FIRST SUMMARY

CLASSES

0 General works

1 Philosophy

2 Religion

3 Sociology

4 Philology

5 Natural science

6 Useful arts

7 Fine arts

8 Literature

9 History

DIVISIONS

000	**General works**	
010	Bibliography	
020	Library economy	
030	General cyclopedias	
040	General collections	
050	General periodicals	
060	General societies	
070	Newspapers	
080	Special libraries. Polygraphy	
090	Book rarities	
100	**Philosophy**	
110	Metaphysics	
120	Special metaphysical topics	
130	Mind and body	
140	Philosophical systems	
150	Mental faculties. Psychology	
160	Logic. Dialectics	
170	Ethics	
180	Ancient philosophers	
190	Modern philosophers	
200	**Religion**	
210	Natural theology	
220	Bible	
230	Doctrinal. Dogmatics. Theology	
240	Devotional. Practical	
250	Homiletic. Pastoral. Parochial	
260	Church. Institutions. Work	
270	Religious history	
280	Christian churches and sects	
290	Ethnic. Non-Christian	
300	**Sociology**	
310	Statistics	
320	Political science	
330	Political economy	
340	Law	
350	Administration	
360	Associations and institutions	
370	Education	
380	Commerce. Communication	
390	Customs. Costumes. Folklore	
400	**Philology**	
410	Comparative	
420	English	
430	German	
440	French	
450	Italian	
460	Spanish	
470	Latin	
480	Greek	
490	Minor languages	
500	**Natural science**	
510	Mathematics	
520	Astronomy	
530	Physics	
540	Chemistry	
550	Geology	
560	Paleontology	
570	Biology	
580	Botany	
590	Zoology	
600	**Useful arts**	
610	Medicine	
620	Engineering	
630	Agriculture	
640	Domestic economy	
650	Communication. Commerce	
660	Chemical technology	
670	Manufactures	
680	Mechanic trades	
690	Building	
700	**Fine arts**	
710	Landscape gardening	
720	Architecture	
730	Sculpture	
740	Drawing. Decoration. Design	
750	Painting	
760	Engraving	
770	Photography	
780	Music	
790	Amusements	
800	**Literature**	
810	American	
820	English	
830	German	
840	French	
850	Italian	
860	Spanish	
870	Latin	
880	Greek	
890	Minor languages	
900	**History**	
910	Geography and travels	
920	Biography	
930	Ancient history	
940	Europe	Modern
950	Asia	Modern
960	Africa	Modern
970	North America	Modern
980	South America	Modern
990	Oceanica and polar regions	Modern

General Works

Limited to *none* of the nine classes

000
001
002
003
004
005
006
007
008
009

Left blank for local history or biography, etc. where some special collection is making which is to be kept in a case by itself, out of its regular place in the classification. Individuals use these numbers for personal diaries, note books, memorabilia, etc.

010 Bibliography

011 General bibliographies
012 Of individual authors
013 special classes of authors
014 " forms, pseudonyms, etc.
015 " countries
016 " subjects
017 Classed catalogs
018 Author "
019 Dictionary "

020 Library economy

021 Scope and founding
022 Buildings
023 Government and service
024 Regulations for readers
025 Administration. Departments
026 Libraries on special subjects
027 General libraries. Reports, etc.
028 Reading and aids
029 Literary methods. Labor savers

030 General cyclopedias

031 American
032 English
033 German
034 French
035 Italian
036 Spanish
037 Slavic
038 Scandinavian
039 Minor languages

040 General collected essays

041 American
042 English
043 German
044 French
045 Italian
046 Spanish
047 Slavic
048 Scandinavian
049 Minor languages

050 General periodicals

051 American
052 English
053 German
054 French
055 Italian
056 Spanish
057 Slavic
058 Scandinavian
059 Minor languages

060 General societies

061 American
062 English
063 German
064 French
065 Italian
066 Spanish
067 Slavic
068 Scandinavian
069 Minor languages

070 Newspapers. Journalism

071 American
072 English
073 German
074 French
075 Italian
076 Spanish
077 Slavic
078 Scandinavian
079 Minor languages

080 Special libraries. Polygraphy

081
082
083
084
085
086
087
088
089

Left blank to be used (if preferred to prefixing an initial) for general collections of books which by terms of gift or for other cause must be kept together. This must be kept distinct from 040 where the individual books are polygraphic, i. e. are bound pamphlets, essays, addresses, scrap or note books, etc. too general in scope to go under any single class. Juveniles could be put here, but are better kept in a separate class, marked J.

090 Book rarities

091 Manuscripts. Autographs.
092 Block books
093 Early printed. Incunabula
094 Rare printing. Privately printed
095 Rare binding
096 Rare illustrations or materials
097 Ownership. Bookplates
098 Prohibited. Lost. Imaginary
099 Other rarities. Curiosa

Philosophy

100 Philosophy
101 Utility
102 Compends
103 Dictionaries
104 Essays
105 Periodicals
106 Societies
107 Study and teaching
108 Polygraphy. Maxims
109 History

110 Metaphysics
111 Ontology
112 Methodology
113 Cosmology
114 Space
115 Time
116 Motion
117 Matter
118 Force
119 Quantity. Number

120 Metaphysical topics
121 Knowledge: origin, limits
122 Causation. Cause and effect
123 Liberty and necessity
124 Teleology. Final causes
125 Infinite and finite
126 Consciousness. Personality
127 Unconsciousness. Automata
128 The soul
129 Origin of the individual soul

130 Mind and body
131 Mental physiology and hygiene
132 Mental derangements
133 Delusions. Witchcraft. Magic
134 Mesmerism. Clairvoyance
135 Sleep. Dreams. Somnambulism
136 Mental characteristics
137 Temperaments
138 Physiognomy
139 Phrenology. Mental photographs

140 Philosophical systems
141 Idealism. Transcendentalism
142 Critical philosophy
143 Intuitionalism
144 Empiricism
145 Sensationalism
146 Materialism. Positivism
147 Pantheism. Monism
148 Eclecticism
149 Other philosophical systems

150 Mental faculties
151 Intellect
152 Sense perceptions
153 Understanding
154 Memory
155 Imagination
156 Reason. Intuitive faculty
157 Sensibility. Emotions
158 Instincts. Appetites
159 Will

160 Logic. Dialectics
161 Inductive
162 Deductive
163 Assent
164 Symbolic. Algebraic
165 Sources of error. Fallacies
166 Syllogism. Enthymeme
167 Hypotheses
168 Argument and persuasion
169 Analogy. Correspondence

170 Ethics
171 Theories of ethics
172 State ethics
173 Family ethics
174 Professional and business ethics
175 Ethics of amusements
176 Sexual ethics
177 Social ethics
178 Temperance
179 Other ethical topics

180 Ancient philosophers
181 Oriental
182 Early Greek
183 Sophistic and Socratic
184 Platonic
185 Aristotelian
186 Pyrrhonist. New Platonist
187 Epicurean
188 Stoic
189 Early Christian and medieval

190 Modern philosophers
191 American
192 British
193 German
194 French
195 Italian
196 Spanish
197 Slavic
198 Scandinavian
199 Other modern

Religion

200 Religion
- 201 Philosophy. Theories
- 202 Compends
- 203 Dictionaries
- 204 Essays
- 205 Periodicals
- 206 Societies
- 207 Education. Theological schools
- 208 Polygraphy
- 209 History of theology

210 Natural theology
- 211 Deism and atheism
- 212 Pantheism. Theosophy
- 213 Creation. Evolution
- 214 Providence. Theodicy. Fatalism
- 215 Religion and science
- 216 Evil. Depravity
- 217 Prayer
- 218 Future life. Immortality
- 219 Analogies. Correspondences

220 Bible
- 221 Old Testament
  - 222 Historical books
  - 223 Poetic "
  - 224 Prophetic "
- 225 New Testament
  - 226 Gospels and Acts
  - 227 Epistles
  - 228 Apocalypse
- 229 Apocrypha

230 Doctrinal. Dogmatics
- 231 God. Unity. Trinity
- 232 Christ. Christology
- 233 Man. The fall. Sin
- 234 Salvation. Soteriology
- 235 Angels. Devils. Satan
- 236 Eschatology. Death. Judgment
  - 237 Future state
- 238 Creeds. Catechisms
- 239 Apologetics. Evidences

240 Devotional. Practical
- 241 Didactic
- 242 Meditative
- 243 Hortatory
- 244 Miscellany. Fiction
- 245 Hymnology. Religious poetry
- 246 Ecclesiology. Symbolism
  - 247 Sacred furniture, vessels, etc.
- 248 Personal religion. Asceticism
- 249 Family devotions

250 Homiletic. Pastoral. Parochial
- 251 Homiletics. Preaching
- 252 Sermons
- 253 Pastoral visitations. Evangelistic
- 254 Clerical support. Celibacy
- 255 Brotherhoods. Sisterhoods
- 256 Societies for parish work. Gilds
- 257 Parochial schools, libraries, etc.
- 258 Parish care of sick, fallen, etc.
- 259 Other ministrations and work

260 Church. Institutions. Work
- 261 Church
  - 262 Ecclesiastical polity
- 263 Sabbath Lord's day. Sunday
- 264 Public worship. Ritual
- 265 Sacraments. Ordinances
- 266 Missions. Home and foreign
- 267 Associations. Y. M. C. A. etc.
- 268 Sunday schools
- 269 Revivals. Retreats

270 Religious history
- 271 Monastic orders
- 272 Persecutions
- 273 Heresies
- 274 Europe
- 275 Asia
- 276 Africa
- 277 North America
- 278 South America
- 279 Oceanica

280 Christian churches & sects
- 281 Primitive and oriental
- 282 Roman catholic
- 283 Anglican and American P. E.
- 284 Continental protestant
- 285 Presbyterian. Congregational
- 286 Baptist
- 287 Methodist
- 288 Unitarian
- 289 Minor Christian sects

290 Ethnic. Non-Christian
- 291 Comparative & general mythology
  - 292 Greek and Roman
  - 293 Teutonic and Northern
- 294 Brahmanism. Buddhism
- 295 Parseeism
- 296 Judaism
- 297 Mohammedanism
- 298 Mormonism
- 299 Minor non-Christian religions

Sociology

300 Sociology
- 301 Philosophy. Theories
- 302 Compends
- 303 Dictionaries
- 304 Essays
- 305 Periodicals
- 306 Societies
- 307 Education
- 308 Polygraphy
- 309 History of sociology

310 Statistics
- 311 Theory. Methods
- 312 Population
- 313 Special topics
- 314 Europe
- 315 Asia
- 316 Africa
- 317 North America
- 318 South America
- 319 Oceanica

320 Political science
- 321 Form of state
- 322 Church and state
- 323 Internal or domestic relations
- 324 Suffrage
- 325 Colonies and immigration
- 326 Slavery
- 327 Foreign relations
- 328 Legislative bodies and annals
- 329 Political parties

330 Political economy
- 331 Capital. Labor. Wages
- 332 Banks. Money. Credit. Interest
- 333 Land. Ownership. Rights and rent
- 334 Cooperation
- 335 Socialism and communism
- 336 Finance. Public funds. Taxation
- 337 Protection and free trade
- 338 Production. Manufacture. Prices
- 339 Pauperism

340 Law
- 341 International law
- 342 Constitutional law and history
- 343 Criminal law
- 344 Martial law
- 345 U. S. statutes and cases
- 346 British statutes and cases
- 347 Treatises. American and British
- 348 Canon law
- 349 Foreign law. Roman

350 Administration. Army
- 351 Administration of central gov't
- 352 Local government. City. Town
- 353 United States and state
- 354 Foreign states
- 355 Army. Military science
- 356 Infantry
- 357 Cavalry
- 358 Artillery
- 359 Navy. Naval science

360 Associations. Institutions
- 361 Charitable
- 362 Hospitals. Asylums
- 363 Political
- 364 Reformatory
- 365 Prisons. Discipline
- 366 Secret societies
- 367 Social clubs
- 368 Insurance
- 369 Other

370 Education
- 371 Teachers, methods, and discipline
- 372 Elementary. Kindergarten
- 373 Intermediate
- 374 Self-education and culture
- 375 Curriculum
- 376 Education of women
- 377 Religious, ethical and secular
- 378 Colleges and universities
- 379 Public schools. State education

380 Commerce. Communication
- 381 Domestic trade
- 382 Foreign trade. Consular reports
- 383 Postoffice
- 384 Telegraph. Cable. Telephone
- 385 Railroad and express
- 386 Canal and highway transportation
- 387 River and ocean transportation
- 388 City transit
- 389 Weights and measures. Metrology

390 Customs. Popular life
- 391 Costume and care of person
- 392 Birth, home and sex customs
- 393 Treatment of dead
- 394 Public and social customs
- 395 Etiquet
- 396 Woman's position and treatment
- 397 Gipsies. Nomads. Outcast races
- 398 Folklore. Proverbs, etc.
- 399 Customs of war

Philology

400 **Philology**
401 Philosophy
402 Compends
403 Dictionaries
404 Essays
405 Periodicals
406 Societies
407 Study and teaching
408 Polygraphy
409 History of language
410 **Comparative**
411 Orthography. Alphabets
412 Etymology
413 Dictionaries
414 Phonology
415 Grammar
416 Prosody
417 Inscriptions
418 Texts
419 **Hieroglyphics**
420 **English**
421 Orthography
422 Etymology
423 Dictionaries
424 Synonyms
425 Grammar
426 Prosody
427 Dialects
428 School texts
429 **Anglo-Saxon**
430 **German**
431 Orthography
432 Etymology
433 Dictionaries
434 Synonyms
435 Grammar
436 Prosody
437 Dialects
438 School texts
439 **Minor Teutonic**
440 **French**
441 Orthography
442 Etymology
443 Dictionaries
444 Synonyms
445 Grammar
446 Prosody
447 Dialects
448 School texts
449 **Provençal**
450 **Italian**
451 Orthography
452 Etymology
453 Dictionaries
454 Synonyms
455 Grammar
456 Prosody
457 Dialects
458 School texts
459 **Rumansh and Wallachian**
460 **Spanish**
461 Orthography
462 Etymology
463 Dictionaries
464 Synonyms
465 Grammar
466 Prosody
467 Dialects
468 School texts
469 **Portuguese**
470 **Latin**
471 Orthography
472 Etymology
473 Dictionaries
474 Synonyms
475 Grammar
476 Prosody
477 Dialects
478 School texts
479 **Minor Italic**
480 **Greek**
481 Orthography
482 Etymology
483 Dictionaries
484 Synonyms
485 Grammar
486 Prosody
487 Dialects
488 School texts
489 **Minor Hellenic**
490 **Minor languages**
491 Minor Indo-European
492 Semitic
493 Hamitic
494 Scythian. Turanian
495 Eastern Asiatic
496 African
497 North American
498 South American
499 Malay-Polynesian and other

Natural Science

500 Natural science
501 Philosophy
502 Compends
503 Dictionaries
504 Essays
505 Periodicals
506 Societies
507 Education. Museums
508 Polygraphy
509 History

510 Mathematics
511 Arithmetic
512 Algebra
513 Geometry. Conic sections
514 Trigonometry
515 Descriptive geometry
516 Analytic geometry. Quaternions
517 Calculus
518
519 Probabilities

520 Astronomy
521 Theoretic
522 Practical and spherical
523 Descriptive
524 Maps and observations
525 Earth
526 Geodesy
527 Navigation
528 Ephemerides
529 Chronology

530 Physics
531 Mechanics
532 Liquids. Hydraulics
533 Gases. Pneumatics
534 Sound. Acoustics
535 Light. Optics
536 Heat
537 Electricity
538 Magnetism
539 Molecular physics

540 Chemistry
541 Theoretic
542 Practical and experimental
543 Analysis
544 Qualitative
545 Quantitative
546 Inorganic
547 Organic
548 Crystallography
549 Mineralogy

550 Geology
551 Physical and dynamic geology
552 Lithology. Petrography
553 Economic geology
554 Europe
555 Asia
556 Africa
557 North America
558 South America
559 Oceanica. Polar regions

560 Paleontology
561 Plants
562 Invertebrates
563 Protozoa. Radiates
564 Mollusks
565 Articulates
566 Vertebrates
567 Fishes. Batrachia
568 Reptiles. Birds
569 Mammals

570 Biology. Ethnology
571 Prehistoric archeology
572 Ethnology. Anthropology
573 Natural history of man
574 Homologies
575 Evolution. Species
576 Origin and beginnings of life
577 Properties of living matter
578 Microscopy
579 Collectors manuals

580 Botany
581 Physiologic and structural
582 Phanerogamia
583 Dicotyledonae
584 Monocotyledonae
585 Gymnospermae
586 Cryptogamia
587 Pteridophyta
588 Bryophyta
589 Thallophyta

590 Zoology
591 Physiologic zoology
592 Invertebrates
593 Protozoa. Radiates
594 Mollusks
595 Articulates
596 Vertebrates
597 Fishes. Batrachia
598 Reptiles. Birds
599 Mammals

Useful Arts

600 Useful arts
601 Philosophy
602 Compends
603 Dictionaries
604 Essays
605 Periodicals
606 Societies. Fairs. Exhibitions
607 Education. Schools of technology
608 Patents. Inventions
609 History of useful arts

610 Medicine
611 Anatomy
612 Physiology
613 Hygiene. Gymnastics. Training
614 Public health
615 Materia medica. Therapeutics
616 Pathology. Diseases. Treatment
617 Surgery. Dentistry
618 Diseases of women and children
619 Comparative medicine. Veterinary

620 Engineering
621 Mechanical
622 Mining
623 Military. Naval
624 Bridge and roof
625 Road and railroad
626 Canal
627 River and harbor
628 Sanitary. Waterworks
629 Other branches

630 Agriculture
631 Soil. Fertilizers. Drainage
632 Pests. Hindrances. Blights. Insects
633 Grains. Grasses. Fibers. Tea, etc.
634 Fruits. Orchards. Vineyards
635 Kitchen garden
636 Domestic animals
637 Dairy. Milk. Butter. Cheese
638 Bees. Silkworms
639 Fishing. Trapping

640 Domestic economy
641 Cookery. Gastronomy
642 Confectionery. Ices
643 Food. Dining. Carving
644 Fuel. Lights
645 Furniture. Carpets. Upholstery
646 Clothing. Toilet. Cosmetics
647 Servants: training, duties, wages
648 Laundry
649 Nursery. Children. Sickroom

650 Communication. Commerce
651 Office equipment and methods
652 Writing. Materials. Typewriters
653 Abbreviations. Shorthand
654 Telegraph. Cables. Signals
655 Printing. Publishing. Copyright
656 Transportation. Railroading, etc.
657 Bookkeeping. Accounts
658 Business manuals. Methods. Tables
659 Advertising and other topics

660 Chemical technology
661 Chemicals
662 Pyrotechnics. Explosives
663 Beverages: wines, liquors, ales, etc.
664 Foods: sugar, starch, etc.
665 Lights: gas, oil, candles, etc.
666 Ceramics: glass, clay, cement, etc.
667 Bleaching. Dyeing. Inks. Paints
668 Other organic chemical industries
669 Metallurgy. Assaying

670 Manufactures
671 Articles made of metals
672 Of iron and steel; stoves, cutlery
673 Of brass and bronze; bells, etc.
674 Lumber and articles made of wood
675 Leather " " leather
676 Paper " " paper
677 Cotton, wool, silk, linen, etc.
678 Rubber and articles made of rubber
679 Celluloid and other

680 Mechanic trades
681 Watch and instrument making
632 Blacksmithing. Horseshoeing
683 Lock and gun making
684 Carriage and cabinet making
685 Saddlery and shoemaking. Trunks
686 Bookbinding
687 Clothesmaking. Hats
688
689 Other trades

690 Building
691 Materials. Processes. Preservatives
692 Plans and specifications
693 Masonry. Plastering, etc.
694 Carpentry. Stairbuilding
695 Roofing. Slating and tiling
696 Plumbing. Gas and steam fitting
697 Heating and ventilation
698 Painting. Glazing. Paperhanging
699 Car and ship building

Fine Arts

700 Fine arts
701 Philosophy. Esthetics
702 Compends
703 Dictionaries
704 Essays
705 Periodicals
706 Societies
707 Education. Study
708 Art galleries
709 History of art

710 Landscape gardening
711 Public parks
712 Private grounds. Lawns
713 Walks. Drives
714 Water. Fountains. Lakes
715 Trees. Hedges. Shrubs
716 Plants. Flowers. Conservatories
717 Arbors. Seats. Outlooks
718 Monuments. Mausoleums
719 Cemeteries

720 Architecture
721 Architectural construction
722 Ancient and oriental
723 Medieval. Gothic
724 Modern
725 Public buildings
726 Ecclesiastical and religious
727 Educational and scientific
728 Residences
729 Design and decoration

730 Sculpture
731 Materials and methods
732 Ancient
733 Greek and Roman
734 Medieval
735 Modern
736 Carving. Seals. Dies. Gems
737 Numismatics. Coins. Medals
738 Pottery. Porcelain
739 Bronzes. Bric-à-brac

740 Drawing. Decoration
741 Freehand. Crayon
742 Perspective
743 Art anatomy. Life school
744 Mathematical drawing
745 Ornamental design. Carpet, etc.
746 Art needlework
747 Interior decoration
748 Stained and iridescent glass
749 Artistic furniture

750 Painting
751 Materials and methods
752 Color
753 Epic. Mythic. Idealistic
754 Genre. Still life
755 Religious. Ecclesiastic
756 Historical. Battles, etc
757 Portrait
758 Landscape. Marine
759 Various schools

760 Engraving
761 Wood
762 Copper. Steel
763 Lithography
764 Chromolithography
765 Line. Stipple
766 Mezzotint. Aquatint
767 Etching. Dry point
768 Banknote. Machine
769 Collections of engravings

770 Photography
771 Photographic chemistry
772 Silver processes, etc.
773 Gelatine and pigment processes
774 " and printer's ink. Albertype
775 Photolithography, etc.
776 Photozincography, etc.
777 Photo-engraving. Photo-electros
778 Special applications
779 Collections of photographs

780 Music
781 Theory
782 Dramatic
783 Sacred
784 Vocal
785 Orchestral
786 Piano and organ
787 Stringed instruments
788 Wind "
789 Percussion and mechanical

790 Amusements
791 Public entertainment
792 Theater. Opera
793 Indoor amusements
794 Games of skill. Chess
795 Games of chance. Cards
796 Outdoor sports
797 Boating and ball
798 Horsemanship. Racing
799 Fishing. Hunting. Shooting

Literature

800 Literature
801 Philosophy
802 Compends
803 Dictionaries
804 Essays
805 Periodicals
806 Societies
807 Study and teaching
808 Rhetoric. Treatises
809 History

810 American literature
811 Poetry
812 Drama
813 Fiction
814 Essays
815 Oratory
816 Letters
817 Satire. Humor
818 Miscellany
819

820 English literature
821 Poetry
822 Drama
823 Fiction
824 Essays
825 Oratory
826 Letters
827 Satire. Humor
828 Miscellany
829 Anglo-Saxon literature

830 German literature
831 Poetry
832 Drama
833 Fiction
834 Essays
835 Oratory
836 Letters
837 Satire. Humor
838 Miscellany
839 Minor Teutonic literatures

840 French literature
841 Poetry
842 Drama
843 Fiction
844 Essays
845 Oratory
846 Letters
847 Satire. Humor
848 Miscellany
849 Provençal literature

850 Italian literature
851 Poetry
852 Drama
853 Fiction
854 Essays
855 Oratory
856 Letters
857 Satire. Humor
858 Miscellany
859 Rumansh and Wallachian

860 Spanish literature
861 Poetry
862 Drama
863 Fiction
864 Essays
865 Oratory
866 Letters
867 Satire. Humor
868 Miscellany
869 Portuguese literature

870 Latin literature
871 Poetry
872 Dramatic
873 Epic
874 Lyric
875 Oratory
876 Letters
877 Satire. Humor
878 Miscellany
879 Minor Italic literatures

880 Greek literature
881 Poetry
882 Dramatic
883 Epic
884 Lyric
885 Oratory
886 Letters
887 Satire. Humor
888 Miscellany
889 Minor Hellenic literatures

890 Minor languages
891 Minor Indo-European
892 Semitic
893 Hamitic
894 Scythian. Turanian
895 Eastern Asiatic
896 African
897 North American
898 South American
899 Malay-Polynesian and other

History

900 History
901 Philosophy
902 Compends. Chronologies
903 Dictionaries
904 Essays
905 Periodicals
906 Societies
907 Study and teaching
908 Polygraphy
909 Universal histories

910 Geography and travels
911 Historical
912 Maps
913 Antiquities
914 Europe
915 Asia
916 Africa
917 North America
918 South America
919 Oceanica. Polar regions

920 Biography
921 Of philosophy
922 " theology
923 " sociology
924 " philology
925 " science
926 " useful arts
927 " fine arts
928 " literature
929 Genealogy. Heraldry

930 Ancient history
931 China
932 Egypt
933 Judea
934 India
935 Medo-Persia
936 Kelts
937 Rome. Italy
938 Greece
939 Minor countries

940 Europe
941 Scotland. Ireland
942 England. Wales
943 Germany. Austria
944 France
945 Italy
946 Spain. Portugal
947 Russia
948 Norway. Sweden. Denmark
949 Minor countries

950 Asia
951 China
952 Japan
953 Arabia
954 India
955 Persia
956 Turkey in Asia
957 Siberia
958 Afghanistan. Turkistan. Balu-[chistan
959 Farther India

960 Africa
961 North Africa
962 Egypt. Nubia
963 Abyssinia
964 Morocco
965 Algeria
966 North Central Africa
967 South Central Africa
968 South Africa
969 Madagascar. Mauritiu

970 North America
971 British America
972 Mexico. Central America
973 United States
974 North Atlantic states
975 South Atlantic states
976 South Central or Gulf states
977 Northeast Central or Lake "
978 Western or Mountain "
979 Pacific states

980 South America
981 Brazil
982 Argentina. Patagonia
983 Chile
984 Bolivia
985 Peru
986 Colombia. Ecuador
987 Venezuela
988 Guiana
989 Paraguay. Uruguay

990 Oceanica. Polar regions
991 Malaysia
992 Sunda
993 Australasia
994 Australia
995 New Guinea
996 Polynesia
997 Isolated islands
998 Arctic regions
999 Antarctic regions

Complete Tables

INCLUDING ALL THE

SUB-SECTIONS

General works

010 Bibliography.

.1, Theory, Utility, etc.; .2, Compends; .3, Dictionaries; .4, Essays; .5, Periodicals; .6, Societies; .7, Education, Training, see also 020.7; .8, Polygraphy; .9, History.

011 General Bibliographies. Universal Catalogs.

011 is by **Authors.** If by **Subjects** they go in 016.

012-016 include both bibliographies and catalogs. 017-019 is limited to catalogs of general collections.

012 Of Individual Authors.

Alphabeted by bibliographees, not by compilers; e. g. Chaucer, Dante, Ruskin, etc. Authors on whom special collections are being made (e. g. in 800s), attract their bibliographies to same number, leaving only a reference here.

013 Of Special Classes of Authors.

e. g. Books written by Jesuits, by Catholics, by members of the Bavarian academy, etc. or these may go with the bibliography of the church, society, etc., with references here.

014 Of Special Forms. Anonyms, Pseudonyms, etc.

.1, American; .2, English; .3, German, etc.

015 Of Special Countries.

Books published in the country. Publishers' lists, current publications. **Subdivided by** countries like 940-999; e. g. 015.42, Bibliography of books published in **England, as** Lowndes or English Catalog.

The history of literature, i. e. belles lettres, poetry, drama, fiction, etc., goes, of course, **with** those topics in 800; but the literary history of any given place or period **covering the** writings on all subjects as well as in literature, is bibliography, and goes, **usually, in** 015, though the literary history of some special class is 013.

016 Of Special Subjects.

Subdivided like the main classification, from 000-999; e. g. 016.01, **Bibliography of bibliographies**; 016.091, of manuscripts; 016.5, of science; 016.942, of English history, etc.

Library and Sale Catalogs.

Catalogs of any special subject, whether subject, author, or dictionary, go **under its subject** number, in 016, which is the ruling heading wherever it conflicts **with another.** 017-019 therefore includes only catalogs of general collections, limited to **no one** class or subject.

017 Classed Catalogs. Systematic or Logical.

.1, Public; .2, Private; .3, Auction; .4, Booksellers.

For all forms of alphabetical subject catalogs, see 019. See 016 for **Bibliographies.**

018 Author Catalogs. See 011 for Bibliographies.

.1, Public; .2, Private; .3, Auction; .4, Booksellers.

A volume containing both author and subject catalogs is more useful in 017. **For auction** catalogs of private libraries use 018.2, not 018.3. 018 includes accession, chronological, and any other forms (except subject and dictionary) of catalogs of **collections.**

019 Dictionary Catalogs. Alphabetico-classed, etc.

.1, Public; .2, Private; .3, Auction; .4, Booksellers.

020 Library Economy.

.1, Coöperation; .2, Compends; .3, Dictionaries; .4, Essays; .5, Periodicals; .6, Societies; .7, Education, Training; .8, Polygraphy; .9, History.

021 Scope and Founding of Libraries.

.1 Scope and Usefulness. See 331.85 for Laboring classes.

.2 Library as an Educator; as People's University.

.3 Library in Relation to Schools and the Young.
See 371.64 and 027.8, School libraries.

.4 Library Lectures, Museums, Galleries, etc.

.5 Library as a Public Recreation.

.6 Founding. Extension.

.7 Developing Interest; by Press, Lectures, School, Pulpit, Societies, Circulars, etc.

.8 Legislation; State and Local.

9 Raising Funds. Securing Gifts of Books, etc.
Subscriptions, bequests, lectures, fairs, membership fees, taxes, government aid (remitted duties, public documents, foreign exchanges, etc.).

022 Buildings. See also 727.8, Architecture.

.1 Location. Provision for Growth. Branches. Deliveries.

.2 Materials and Protection against Fire. Library Fires.

.3 Plans. Number, Size, and Arrangement of Rooms.
See 729.2.

.4 Storage Rooms. Stacks. Alcoves. Galleries.

.5 Reading Rooms. Central Halls. Small Study Rooms.

.6 Administration and Special Rooms.
Cataloging, office, patent, newspaper, public document, duplicate, class, lecture, museum, art, chess, conversation, waiting, coat, toilet, etc.

.7 Lighting. Natural and Artificial. Electric, Gas, etc.
See 621.32, Electric lighting.

.8 Heating and Ventilation as Affecting Books.
See 697, Building, Heating, etc. See 621.19, 628.8.

.9 Fixtures. Furniture and Fittings. Shelving, Counters, Hoists, Desks, Tables, Chairs, etc.

023 Government and Service.

.1 **Constitution and By-Laws for Managers.**

.2 **Appointment and Tenure of Officers.**

.3 **Trustees. Committees. Directors.**

.4 **Chief Librarian. Qualification. Duties.** See 920.2, Lives.

.5 **Staff. Assistants, Cataloguers, Janitor.**

.6 **Daily Hours. Vacations.**

.7 **Titles and Duties.**

.8 **Salaries.**

.9 **Rules for Staff.**

024 Regulations for Readers.

.1 **Readers' Qualifications.**
User's age, Residence, Guarantees, References, Registration.

.2 **Fees and Assessments. Free Use.** See 027.2; 027.4.

.3 **Hours of Opening. Evening Opening.**

.4 **Closing. Sunday, Holiday, Vacation, Examination.**
See 263.7, Sunday; 025.8, Examination.

.5 **Reference Use.**
Access to Catalogs, Librarians, and Shelves. Reading-Room Rules. Decorum in Library.

.6 **Home Use.**
Number of Books, Time, Delinquencies, Fines, Re-lending, Restrictions, Renewals.

.7 **Special Privileges to Readers.**
Extra Books. Extra Time. Reservations. Suspension of Rules. Excuses.

.8 **Injuries. Defacements. Mutilations. Losses. Thefts.**

.9 **Other Regulations for Users.**

025 Administration. Departments.

025 is for the librarian's part. The trustees build and furnish (022); make rules for government and service (023), and regulations for readers (024); but the administration involves questions of its own, which, however, are closely allied to topics in 021–024 and elsewhere; e. g. the librarian must know his side of binding, and be able to give proper directions and supervision, but need not know all the details of the binder's craft (686).

Administration includes .1, Supervision; .2, Acquisition; .3–6, Utilization; .7–9, Preservation; i. e. the librarian's duty to books is to Get, Use, Keep.

.1 Executive. General supervision.

Finances, accounts, salaries (see 023.8); Supplies, printing; Publications, statistics, reports, bulletins; Relations to readers, permits, privileges, visitors; Correspondence.

.2 Accession. Acquisition.

Selecting and buying books, serials, pamphlets, ephemera; Prices, discounts, duty free importation (see 337.8); Auctions, old book lists; Sale duplicates, exchanges, gifts (see also 021.9); Reception, checking bills, collation; Plating, pocketing, embossing, private marking; Accessioning; Order slips, index and book, order and serial blanks.

.3 Catalog. For printed catalogs themselves, see 017–019. This is for *cataloging*.

Printed, manuscript, or card; Author, subject, title, classed; Dictionary or combined; Coöperative rules; Size notation; Coöperative cataloging; Duplicated titles, print or photography; Mechanical accessories, cards, cases and fittings, drawers, trays, blocks, checks, guides, labels.

.4 Classification.

For philosophical classification of knowledge, see 112, Methodology. This is for practical classing of books, pamphlets, and notes, rather than theoretical speculation.

On shelves; in catalogs; in dictionary catalogs; Systems of notation, figures, letters, symbols, combined; Importance and advantages; Difficulties; Close *vs.* broad classing; Mnemonic features; Basis of division; Co-ordination of special subjects.

.5 Reference. Reference books. Aids to readers.

See 028 for general discussion of reading and aids. This is limited to library administration.

.6 Loan. See 024.1 and 024.6 for regulations.

Indicators; Charging systems, legers *vs.* cards; Book cards, marks, pockets; Call slips, readers' cards; Notices, reserves; Registers; Inter-library loans; Mechanical accessories, slip cases, trays, tills, stamps, etc.

.7 Binding and repair. See also 686, Bookbinding.

Materials, durability, tight *vs.* spring backs, sewing, color, lettering; Paper covers and temporary binders; Restoring, mending, cleaning, and oiling.

.8 Shelf. See 022.9, Shelving.

Arrangement; Shelf numbers; Shelf and book labels; Fixed and relative locations Sizes on shelves; Arrangement and preservation of public documents, pamphlets, papers, manuscripts, maps, drawings, and plans, music, broadsides, clippings; Injuries, heat, gas, insects; Stock taking; Shelf lists.

.9 Building. Care, cleaning, safety. Janitor. Police.

See 022 for building and fittings. This is janitor's department.

026 Libraries on special subjects.

Histories, reports, statistics, bulletins, handbooks, circulars, and everything about the library not more required in one of the sections above. Subdivided by adding the class number of subject; e. g. a Medical Library is 026.61; a Chess Library, 026.794; but the Catalog of a Chess Library is 026.794; Blanks, etc., from any library go under subjects in 025, as more used in studying topics; but, if history of individual libraries is specialized, duplicates are also desirable under the library in 026–7, thus making a complete set of its publications.

027 General libraries.

This includes both circulating and reference; i. e. all not limited to special subjects. Subdivided if wished by countries, like 930–999; e. g. 027.744, College libraries in France. Or if wished, group all by geographical location, using 0 in 4th place to indicate no division by *kinds* of libraries; e. g. 027.044, Libraries of France; 027.07471, Libraries of N. Y. City.

A private library is still classed 027.1, after it has been sold or merged in a public library. But a society library changed to a free public should take 027.4 for all publications after the change.

.1 Private and family.

.2 Proprietary, Society, Club and Athenæum.

.2 is limited to libraries that are semi-private, requiring an election for admission, while .3 includes all open to any one on payment of a fee. It is the difference between a club and a hotel. .3 is for libraries run as a business. A mercantile library, even though it has endowments, if open without individual election, goes in .3 as a subsidized public subscription library. Many private subscription libraries go in .2.

.3 Subscription. Circulating. e. g. Mudie's, etc.

.4 Free public. Rate supported. Endowed. See 331.85.

.5 State and government.

.6 For special classes.

Institution, prison, reformatory, asylum, monastic, workmen's, factory, railroad, sailors, lighthouse, itinerating. A workmen's library of books on engineering goes 026.62, not here, as the subject is more useful than the class of readers.

.7 College.

.8 School. Sunday-school. Parish. See also 371.64; 021.3.

.9 Free news-rooms and reading-rooms. See also 331.85.

028 Reading and aids.

See 374.1-2, Self education by private reading and reading circles.

.1 **Methods.**

Tasting, skipping, reviewing, making synopses, abstracts, extracts, and index rerums (see 029), book marking.

.2 **Choice of editions.** Annotations, indexes, paper, type.

.3 **Courses of reading.**

.4 **Fiction. Novel reading.**

.5 **Reading of young. Juveniles.**

.6 **Professorships of books and reading.**

Lectures. Stimulus and guidance in schools.

.7 **Use of reference books.**

.8 **Aids to readers.** Guidance, printed or personal, see also 028.6 and 025.5.

.9 **Character of reading in libraries.**

029 Literary methods and labor-savers.

Much in 025 and 028 belongs equally under 029 in its full meaning, but practical convenience is best served by referring to 025 and 028 instead of repeating the heads.

.1 **Methods.** e. g. Exact reference; standard sizes; use of colors; thought study; intercalation or card system (see 025.3); coöperative methods; records *vs.* memory, etc.

See 653, abbreviations and shorthand; 154.1, mnemonics; 025.4, classification.

.1 is for what one *learns* how to do by an improved *method*.

.2 is for articles which one must make or buy in order to utilize. Where a pamflet covers both appliance and method, class with predominant feature.

.2 **Appliances. Labor-saving tools and devices.** See also 651.

Most literary labor-saving devices go also under 651, Office equipment and methods; and are best kept together there; e. g. all office and study furniture, fittings and supplies, cases, bookholders, reading desks, pigeonholes, files, etc. For pamflet, map, etc., cases, see 025.8; for binders, 025.7.

.3 **Clippings. Scrapbooks or files.** See also Files 651.

.4 **Notebooks, notetaking, abstracting, etc.**

.5 **Indexing. Index rerums. Printed and patent indexes.**

For alfabeting and transliteration see 025.3.

.6 **Authorship. Writing for press. Copy and proof.**

See also 655.25 Proofreading; 655.52 Relations to publishers.

.7

.8

.9

The Divisions 030–070 below are all subdivided; 1, American; 2, English; 3, German; 4, French; 5, Italian; 6, Spanish; 7, Slavic; 8, Scandinavian; 9, Other.

030 General cyclopedias.

040 General collected essays.

050 General periodicals. Magazines.

060 General societies. Transactions.

e. g. Academies of Paris, Berlin, Vienna, etc.

070 General newspapers. Journalism.

In large collections use geographical divisions under 1, American; 2, English, etc., as in 970 and 940–9. Because of large size and very general character, it is better to keep newspapers together here than to class with local history of the place where published. They could not go on shelves with ordinary sized books, and a reference is made as easily to them under 070 as anywhere.

080 Special libraries. Polygraphy.

090 Book rarities.

Books about these topics, and those chiefly valuable because of their rarity, go here. A rare early edition of Shakspere goes in 822.33 with reference from 099. 090 is mostly used for grouping references to books located elsewhere.

091 Manuscripts. Autographs.

Photographs of mss. go with subject rather than here.
For Diplomatics and Palæography, see 417, and under the special language, 421-5 431-7, etc.

092 Block books.

093 Early printed books. Incunabula.

094 Rare printing.

Aldines, Elzevirs, Caxtons, etc.; Privately printed books; Unique books.

095 Rare binding.

Noted binders, costly ornament, curious bindings.

096 Rare illustrations or materials.

Illuminated. Illustrated by inserted plates. Printed on vellum, silk, bark, etc. in gold or silver letters, etc.

097 Ownership. Book plates. Ex libris.

098 Prohibited. Lost. Imaginary.

099 Other rarities. Curiosa. Minute size, etc.

Philosophy.

100 Philosophy in General.

Works limited to none of the nine Divisions.

101 Utility.

102 Compends, Outlines.

103 Dictionaries, Cyclopedias.

104 Essays, Lectures, Addresses.

105 Periodicals, Philosophical Magazines.

106 Societies, Transactions, etc.

107 Study and Teaching of Philosophy.

108 Polygraphy, Extracts, Maxims, etc.

109 History of Philosophy.

110 Metaphysics.

111 Ontology.

Nature of Being. Substance and Form.

112 Methodology.

Philosophical Classification of Knowledge. Terminology. For Book Classification see [illegible]

113 Cosmology.

114 Space.

115 Time.

116 Motion.

117 Matter.

118 Force.

119 Quantity. Number.

120 Other Metaphysical Topics.

121 Theory of Knowledge. Origin. **Limits.**

122 Causation. Cause and Effect.

123 Liberty and Necessity.

See also 233.7, Freedom; 234.9, Predestination; 159, Will.

124 Teleology. Final Causes.

125 Infinite and Finite.

126 Consciousness. Personality. See 233.6, Doctrine

127 Unconsciousness. Automata.

128 The Soul. See 218, Natural theology; 237, Future state.

129 Origin of the Individual Soul.

.1 **By Special Creation.** See 213, Creation.

.2 **By Inheritance. Traduction.**

See 575.1, Evolution; 136.3, Mental heredity; 233.3, Spiritual heredity.

.3 **Pre-existence.**

.4 **Transmigration. Palingenesis.**

.5 **Emanation.** See also 147, Pantheism; 212, Natural theology.

130 Mind and Body. Anthropology.

131 Mental Physiology and Hygiene.

For influence of mind on body, mind cure, etc., see 615.851; see also 613.8, Hygiene of nervous system.

132 Mental Derangements.

.1 **Insanity.** See 362.2, Asylums; 920.8, Lives; 616.84, Disease.

.2 **Idiocy.** See 362.3, Asylums; 920.8, Lives; 371.93, Education.

.3 **Hypochondria. Melancholy.** See 616.852, Hysteria.

.4 **Catalepsy.** See 616.852, Hysteria.

.5 **Ecstatics.**

.6 **Kleptomania and other leading to crime.**

.7 **Dipsomania and other leading to vice.**

See also 178, Temperance; 616.861, Alcoholism.

.8 **Mnemonic derangements.**

Not knowing in one state what passed in another. See 154, Memory.

133 Delusions. Witchcraft. Magic.

.1 **Apparitions. Ghosts.**

.2 **Hallucinations.**

.3 **Divination. Oracles. Second Sight. Omens. Predictions.**

.4 **Witchcraft. Sorcery.** See 272.8, Persecutions.

.5 **Astrology.** See also 520.1, Astrology.

.6 **Palmistry.**

.7 **Humbugs. Quackery.**

.9 **Spiritism. Table-tipping, etc.** See also 289.9, Sects.

134 Mesmerism. Animal Magnetism Clairvoyance.

135 Sleep. Dreams. Somnambulism.

136 Mental Characteristics.

See also 131, Mental physiology.

As Influenced by

.1 **Sex.** See 376.2, Mental capacity of women.

.2 **Physical Surroundings.**

See 575.3, Evolution; 573.4, Natural history of man.

.3 **Ancestry (Mental Heredity).** See 575.1, Evolution; 233.3, Spiritual heredity; 129.2, Origin of soul; 613.92, Hygiene.

.4 **Race. Racial Characteristics.** See 572, Ethnology.

.5 **Age.**

.6 **Physical Structure and Conditions.**

137 Temperaments.

138 Physiognomy.

139 Phrenology. Mental Photographs, etc.

140 Philosophical Systems.

The heads 140–149.9 are for the discussion of the systems as such. The philosophical works of authors of these various schools are classed under 190, not here. From these heads refer in the catalogs to authors clearly falling under them, without attempting to label each writer as an exponent of some one system.

141 Idealism. Transcendentalism. e. g. Plato, see 184.1, 884.4; Berkeley, see 192.3; Fichte, see 193.3; Emerson, see 191.3, 814.36.

142 Critical Philosophy. e. g. Kant, see 193.2.

143 Intuitionalism. e. g. Reid, see 192.5; McCosh, see 191.5.

See also 156, Intuitive faculty; 171.2, Ethics.

144 Empiricism. e. g. Descartes, see 194.1; Bacon, see 192.1.

145 Sensationalism. e. g. Locke, see 192.2.

146 Materialism. Positivism. e. g. Hobbes; Comte, see 194.8.

See also 149.2, Realism.

147 Pantheism. Monism. e. g. Spinoza. See 212, Natural theology

148 Eclecticism. e. g. Cousin, see 194.7.

149 Other Philosophical Systems.

See 211, Rationalism, Scepticism; 214, Fatalism.

.1 **Nominalism.**

.2 **Realism.** See 146, Materialism.

.3 **Mysticism.** See 273.2, Heresies; 189.5, Medieval philosophy.

.4 **Associationalism.**

.5 **Optimism. Meliorism.**

.6 **Pessimism.** e. g. Schopenhauer, see 193.7.

See also 216, Evil; 233, Doctrine of man.

.7 **Agnosticism.** See 273.8, Agnostic heresy.

.8 **Nihilism.**

.9 **Other Systems.**

150 Mental Faculties. Psychology.

For mind in animals, see 591.51.

151 Intellect. Capacity for Knowing.

.1 Genius.

152 Sense. Sense Perceptions.

Passive or Receptive Faculty.

.1 Vision.

.2 Hearing.

.3 Smell.

.4 Taste.

.5 Touch.

.6 Muscular Sense.

153 Understanding.

Active or Thinking Faculty.

.1 Conception. The Concept or Notion.

.2 Association.

.3 Abstraction.

.4 Reflection.

.5 Judgment.

.6 Reasoning. Induction and Deduction. See 160, Logic.

154 Memory. Reproductive power.

See 132.8, Mnemonic derangements.

.1 Mnemonics.

155 Imagination. Creative Power.

.1 Fancy. Imaging Power.

156 Intuitive Faculty. Reason. For Reasoning, see 153.6.

157 Sensibility. Emotions. Affections.

158 Instincts. Appetites.

159 Will.

160 Logic. Dialectics.

See 153.6, Reasoning power. For logic of chance, see 519, Probabilities.

161 Inductive.

162 Deductive.

163 Assent. Faith. See also 234.2, Doctrinal theology.

164 Symbolic. Algebraic. Logical machines.

Logical topics.

165 Sources of error. Fallacies.

166 Syllogism. Enthymeme.

167 Hypotheses.

168 Argument and persuasion.

169 Analogy. Correspondence. See also 219, Natural theology.

170 Ethics. Theoretical and applied.

Many topics in applied ethics occur also in law, specially in 343, Criminal law. See also 377.2, Ethical education.

.1, ; .2, Compends; .3, Dictionaries; .4, Essays; .5, Periodicals; .6, Societies, Society for ethical culture; .7, Study and teaching; .8, Polygraphy; .9, History.

171 Theories. Philosophy of ethics.

.1 **Authority. Will of God. Christian.**

.2 **Intuition. Moral sentiment.**

See also 143, Intuitionalism; 156, Intuitive faculty.

.3 **Perfection.**

.4 **Happiness. Hedonism.**

.5 **Utilitarianism.**

.6 **Conscience. Casuistry.**

.7 **Evolutionary or educational.**

.8 **Altruism.**

.9 **Egoism.**

172 State Ethics.

.1 **Individuals and the state. Duties of citizens. Patriotism.** See 320, Political science.

.2 **Duties of public officers.**

.3 **Relations to church.**

See 261.7, The church; 322, Church and state; 272, Persecutions.

.4 **International ethics. Peace and war.**

See 341, International law.

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173 Family Ethics.

.1 Marriage and Divorce. See 347.6, Family law.
.2 Polygamy and Monogamy. See 298, Mormonism.
.3 Duties of Husbands and Wives.
.4 Infanticide.
.5 Duties of Parents.
.6 Duties of Children.
.7 Home Life.
.8 Masters and Servants. See 647, Servants; 331, Labor.
.9

174 Professional and Business Ethics.

.1 Clergy.
.2 Physicians.
.3 Lawyers.
.4 Merchants. Business Men.
.5 Speculation.
.6 Gambling. See 175.
.7 Compact. Promise.
.8 Employers and Employed.
.9

175 Ethics of Amusements. For amusements, see 790.

.1 Public Shows and Diversions. Rinks, Circuses, etc.
.2 Theater. Opera. Private Theatricals.
.3 Dancing. Balls. Round Dances.
.4 Games of Skill. Billiards, Chess, etc.
.5 Games of Chance. Cards, Dice, etc.
.6 Prize Fighting. Animal Fighting. Bull, Dog, Cock, etc.
.7 Racing. Horse. Boat. Pedestrian. Wheel, etc.
.8 Novel Reading.
.9 Betting. Poolselling. See 174.6.

176 Sexual Ethics.

.1 Chastity.
.2 Celibacy. See 254, Celibacy of Clergy.
.3 Continence.
.4 Solitary Vice.
.5 Social Evil. See 258, Parish care of fallen.
.6 Adultery.
.7 Immoral Art.
.8 Immoral Literature.
.9

177 Social Ethics.

.1 Courtesy. See Etiquet, 395.

.2 Conversation. Gossip. See also 374.1, Self-culture.

.3 Truth. Slander. Flattery.

.4 Dress. Display. Sumptuary Legislation.

.5 Caste. Class Feeling. Wealth and Rank.
See 294, Brahmanism; 331, Capital and labor.

.6 Friendship. Courtship. Coquetry.

.7 Philanthropy. Humanity.

.8 Solitude vs. Social Obligations.

.9

178 Temperance. Stimulants and Narcotics.

General works on Temperance may be divided by form into .04, Essays; .05, Periodicals; .06, Societies; .07, Teaching; .09, History. See also 613.3, Beverages; 613.8, Nervous system; 331.84, Laboring classes.

.1 Use of Intoxicating Drinks. Beer Drinking. Medicinal Use.

.2 Total Abstinence vs. Temperance.

.3 Social Drinking. Wine at Table. Treating.

.4 Traffic in Intoxicating Drinks. License. High License.
See also 336.27, Taxation.

.5 Prohibition. See 329.81, Prohibition party.

.6 Reformatories. Inebriate Asylums, etc. See 362.

.7 Tobacco.

.8 Opium. Hasheesh. Chloral. Ether and other Drugs.

.9 Gluttony and other Intemperance.

179 Other Ethical Topics.

.1 Morals of the Press. Newspapers.

.2 Cruelty to Children. See 173.4; 331.3, Labor of children.

.3 Cruelty to Animals.

.4 Vivisection. See also 614.22, Vivisection laws.

.5 Oaths.

.6 Heroism. Bravery. Cowardice.

.7 Life. Duelling. Suicide. See 394.8, Customs.

.8 Pride. Covetousness. Envy. Anger. Sloth. Jealousy. Hate, and other Vices.

.9 Humility. Liberality. Gentleness. Patience. Diligence. Charity. Modesty, and other Virtues.

180 Ancient Philosophers.

See 921.9, Biography of Ancient Philosophy.

181 Oriental Philosophers.

.1 Chinese. Confucius. Mencius.
.2 Egyptian.
.3 Jewish. Kabala. Philo. Maimonides.
.4 Indian. Gymnosophists.
.5 Persian. Sufism.
.6 Chaldæan.
.7 Sabeism.
.8 Phœnician.
.9 Syrian.

182 Early Greek Philosophers.

.1 Ionic. Thales. Anaximander. Anaximenes.
Materialistic. Things are as they seem.
.2 Italic or Pythagorean. Half Idealistic.
.3 Eleatic. Xenophanes. Parmenides. Zeno. Melissus.
Idealistic. Existence denied. Thought is the only reality.
.4 Heraclitus.
.5 Empedocles.
.6 Atomistic.
.7 Democritus.
.8 Anaxagoras.
.9 Other Early Greek.

183 Sophistic and Socratic Philosophers.

.1 Sophistic. Protagoras. Gorgias. Prodicus. Hippias.
.2 Socrates.
.3 Socratic.
.4 Cynic. Antisthenes, Diogenes, Crates, etc.
.5 Cyrenaic. Aristippus, Hegesias, etc.
.6 Megaric. Euclid, Eubulides, Diodorus, etc.
.7 Elian and Eretrian. Phedo, Menedemus, etc.

184 Platonic. Older Academy.

.1 Plato. .2 Speusippus. .3 Xenocrates.

185 Aristotelian. Peripatetic. Lyceum.

.1 Aristotle. .2 Theophrastus. .3 Eudemus. .4 Strato.

186 Pyrrhonist. New Platonist.

.1 Pyrrhonism. Scepticism. Pyrrho, Timon.

.2 New Academy. Arcesilaus, Carneades. Plutarch. See 888.8.

.3 Eclecticism. Cicero. See 875.4.

.4 Alexandrian. Neo-Platonic. Philo, Plotinus, Proclus, Porphyry, Iamblichus. See 239.4, Apologetics; 273.1.

187 Epicurean. Epicurus. Lucretius. See also 871.1.

188 Stoic.

.1 Zeno.

.2 Cleanthes.

.3 Chrysippus.

.4 Panaetius.

.5 Posidonius.

.6 Seneca. See 878.5; 872.6.

.7 Epictetus.

.8 Marcus Aurelius.

189 Early Christian and Medieval Philosophers.

.1 Gnosticism. See 273.1, Basilides, Marcion. See 273.2, Manicheism.

.2 Patristic. Tertullian. Augustine. Clement. Origen

.3 Arabian. Avicenna, Averroes.

.4 Scholastic. Scotus, Aquinas, Anselm, Abelard.

.5 Mystic. Reuchlin, Cornelius Agrippa, Paracelsus, Servetus, Böhme.

190 Modern Philosophers.

See also 921.1 to 921.8, Biography of Philosophy, or lives may be put here with works, with references only under 920, Biography. Philosophical works are put here, not under the School or System to which the author may be thought to belong. See note under 140.

191 American Philosophers.

These numbers may be left blank for future use or used for the well known names among American Philosophical writers given below.

.1	Jonathan Edwards.	1703–1758.
.2	O. A. Brownson.	1803–1876.
.3	Ralph Waldo Emerson.	1803–1882. See 814.36.
.4	Laurens P. Hickock.	1798–1888.
.5	James McCosh.	1811–
.6	Noah Porter.	1811–1892.
.7	Francis Bowen.	1811–1890.
.8	William T. Harris.	1835–
.9	Other American Philosophical Writers.	

192 British Philosophers.

.1	Bacon.	1561–1626.	See 144, Empiricism.
.2	Locke.	1632–1704.	See 145, Sensationalism.
.3	Berkeley.	1685–1753.	See 141, Idealism.
.4	Hume.	1711–1776.	See 824.64, English Essays
.5	Reid.	1710–1796.	See 143, Intuitionalism.
.6	Dugald Stewart.	1753–1828.	
.7	John Stuart Mill.	1806–1873.	
.8	Spencer.	1820–	
.9	Other British Philosophical Writers.		

193 German Philosophers.

.1	Leibnitz.	1646–1716.	
.2	Kant.	1724–1804.	See 142, Critical Philosophy.
.3	Fichte.	1762–1814.	See 141, Idealism.
.4	Schelling.	1775–1854.	
.5	Hegel.	1770–1831.	
.6	Schleiermacher.	1768–1834.	
.7	Schopenhauer.	1788–1860.	See 149.6, Pessimism.
.8	Lotze.	1817–1882.	
.9	Other German Philosophical Writers.		

194 French Philosophers.

.1	Descartes.	1596–1650.	See 144, Empiricism.
.2	Malebranche.	1638–1715.	
.3	Condillac.	1715–1780.	
.4	Rousseau.	1712–1778.	
.5	Diderot.	1713–1784.	
.6	Lamennais.	1782–1854.	
.7	Cousin.	1792–1867.	See 148, Eclecticism.
.8	Comte.	1798–1857.	See 146, Positivism.
.9	Other French Philosophical Writers.		

195 Italian Philosophers.

196 Spanish Philosophers.

197 Slavic Philosophers.

198 Scandinavian Philosophers.

199 Other Modern Philosophers.

The heads of 180–199 are for discussions of the systems of these men and for their philosophical works not clearly belonging elsewhere, not for *all* their works. Mill's Logic is 160 not 192.7, but his *complete works* bound together are 192.7. Plato and Aristotle have individual numbers, 888.4 and 5, where their works are more useful than in 184–5 because of their classical prominence.

Religion

200 Religion General works.

201 Philosophy. Theories. Methods.

202 Compends. Outlines. Systems.

203 Dictionaries. Cyclopedias.

204 Essays. Lectures. Disputations. Addresses.
See 252, Sermons.

205 Periodicals. Magazines. Reviews.

206 Societies. Transactions. Reports, etc.
General conferences. Societies whose work is largely done by paid officers, most members merely contributing money; e. g. Pan-evangelical alliance, Bible and tract societies. Put history, reports, etc. here, but their publications of course go with subject.

207 Education. Theological seminaries. Training schools. Divided like 940–99.

208 Polygraphy. Collected works. Extracts, etc.
Many collections go under a more specific head; e. g. 240.

209 History of religion.

210 Natural theology.

211 Deism and atheism.
Scepticism. Infidelity. Rationalism, etc.
See 239, Apologetics; 231, God; 273.8, Agnostic heresy; 149.7, Agnosticism.

212 Pantheism. Theosophy. See 147, Pantheism; 129.5, Origin of soul.

213 Creation. See 113, Cosmology. Evolution. See 575, Science.

214 Providence. See 231.5, Doctrines. Theodicy. See 231.8, for Christian view.

215 Religion and science. See 239.8, Apologetics.

216 Evil. Depravity. See 149.6, Pessimism; 233.2, Sin.

217 Prayer. Prayer gauge. See 264.1, Prayer; 248, Personal religion.

218 Future life. Immortality. Eternity.
See 237, Future state; 128, The soul.

219 Analogies. Correspondences. See also 169, Logic.

220 Bible. General works.

For similar works limited to Old or New Testament, or individual books, see specific head below.

.1 **Canon. Inspiration. Prophecy.**

.2 **Concordances. Analyses.**

.3 **Dictionaries. Cyclopedias.**

.4 **Original texts and early versions. Codices.**

Heads for both old and new testaments are given, as they are also used for 221 and 225.
.42, Chaldee; .43, Syriac; .44, Hebrew; .45, Samaritan; .46, Other Semitic. Ethiopic. Arabic, etc.; .47, Latin. Itala. Vulgate; .48, Greek. Septuagint. Aquila. Symmachus. Theodotion. Hexapla; .49, Other early versions. Armenian. Coptic, Gothic, etc. 220.4 and 220.5 are pure texts. A Hebrew bible with commentary goes in 220.7, with reference from 220.44.

.5 **Versions of Bible. Polyglots.** Divided by languages, like 400.

These are translations from the original Hebrew and Greek. Translations from other early texts go with them in 220.4; e. g. an English translation of the Syriac goes in 220.43.

.6 **Hermeneutics. Exegesis. Symbolism. Typology.**

.7 **Commentaries on whole Bible, and annotated editions.**

For Notes, etc., on Portions of the Bible, see the most specific head in 221–229.

.8 **Special topics.**

Divided like General Classification; e. g. Natural Science of the Bible in 220.85.

.9 **Biblical Geography and History.**

.91 Biblical geography, description, etc.; (see 915.69, 913.33, Palestine); .92, Scriptural biography, (see also 922.1; 232.9, Lives of Christ); .93, Antiquities, archæology; (see also 296, Jewish religion; 933, History of Jews); .94, Chronology; .95, History, see 933, Jews.

221 Old Testament. Texts. Introductions, etc.

Divided like 220, e. g. 221.7. Commentaries on O. T.

222 Historical books.

.1 **Pentateuch.**

.11, Genesis; .12, Exodus; .13, Leviticus; .14, Numbers; .15, Deuteronomy; .16, Decalogue.

.2 **Joshua.**

.3 **Judges and Ruth.**

.4 **Samuel.**

.5 **Kings.**

.6 **Chronicles.**

.7 **Ezra.**

.8 **Nehemiah.**

.9 **Esther.**

223 Poetical books.

.1 **Job.**

.2 **Psalms.**

.3 **Authorship and chronology.**

.4 **Special groups.**

Messianic: Greater Hallel; Lesser Hallel: Vesper Psalms; Penitential, 6, 32, 38, 51, 102, 130, 143; Hebraic Five Books, Ps. 1–41; 42–72; 73–79; 60–106; 107–150.

.5 **Liturgic use by Christians.**

See 264.038, Anglican psalter; 245, Hymnology.

.6 **Commentaries on Psalms.**

.7 **Proverbs.**

.8 **Ecclesiastes.**

.9 **Song of Solomon or Canticles.**

224 Prophetical Books.

.1 **Isaiah.**
.2 **Jeremiah.**
.3 **Lamentations.**
.4 **Ezekiel.**
.5 **Daniel.**
.6 **Hosea.**
.7 **Joel.**
.8 **Amos.**
.9 **Other Minor Prophets.**
.91 Obadiah.
.92 Jonah.
.93 Micah.
.94 Nahum.
.95 Habakkuk.
.96 Zephaniah.
.97 Haggai.
.98 Zechariah.
.99 Malachi.

225 New Testament. Texts, Introductions, etc.

Divided like 220.

226 Gospels and Acts.

.1 **Harmonies.**
.2 **Matthew.**
.3 **Mark.**
.4 **Luke.**
.5 **John.**
.6 **Acts of the Apostles.**
.7 **Miracles.**
.8 **Parables.**
.9 **Lord's prayer.**

227 Epistles.

.1 **Romans.**
.2 **1 Corinthians.**
.3 **2 Corinthians.**
.4 **Galatians.**
.5 **Ephesians.**
.6 **Philippians.**
.7 **Colossians.**

227.8 **Other Pauline Epistles.**

.81 1 Thessalonians.
.82 2 Thessalonians.
.83 1 Timothy.
.84 2 Timothy.
.85 Titus.
.86 Philemon.
.87 Hebrews.

.9 **Catholic Epistles.**

.91 James.
.92 1 Peter.
.93 2 Peter.
.94 1 John.
.95 2 John
.96 3 John.
.97 Jude.

228 Apocalypse.

229 Apocrypha.

.1 **Esdras 1, 2.**
.2 **Tobit, Judith, Esther.**
.3 **Wisdom.**
.4 **Ecclesiasticus.**
.5 **Baruch, Epistle of Jeremy, Song of the three Children.**
.6 **Story of Susanna, History of Bel and the Dragon, Prayer of Manasses.**
.7 **Maccabees 1, 2, 3,4.**
.8 **Pseudo Gospels.**
.9 **Apostolic Epistles and Canons. Clementines.** See 281.1.

230 Doctrinal. Dogmatics. Theology.

General Doctrinal Works may be subdivided by churches like 280–289. See 252.3.

231 God. Unity. Trinity.

.1 **God the Father, Creator.**
.2 **God the Son, Redeemer.**
.3 **God the Holy Ghost, Giver of Life, Sanctifier.**
.4 **Divine Attributes. Omniscience, Omnipresence, Omnipotence.**
.5 **Divine Providence.** See 214.
.6 **Divine Love and Wisdom.**
.7 **Divine Law and Miracles.**
.8 **Theodicy.** Vindication of God's justice in permitting evil. See also 214, Nat. theology.
.9

232 Christology.

.1 Incarnation. Messiah.
.2 Logos, the Word of God.
.3 Atonement.
.4 Sacrifice.
.5 Resurrection.
.6 Second Coming. See also 289.3, Second Adventists
.7 Judgment.
.8 Divine Humanity.
.9 Lives of Christ.

233 Man.

.1 The Fall.
.2 Sin.
.3 Moral and Spiritual Heredity. See Biology, 575.1; 130.2; 129.2
.4 Accountability.
.5 Natural and Spiritual Body.
.6 Personality. See 126, Metaphysics.
.7 Freedom. See 234.9; 123; 159.
.8
.9

234 Salvation. Soteriology.

.1 Grace.
.2 Faith.
.3 Redemption.
.4 Regeneration.
.5 Repentance.
.6 Obedience.
.7 Justification.
.8 Sanctification.
.9 Predestination and Freewill. See 233.7; 123; 159.

235 Angels. Devils. Satan.

236 Eschatology. Last Things.

.1 **Death.**

.2

.3 **Millennium.**

.4 **Intermediate State. Sheol. Hades.**

.5 **Purgatory.**

.6 **Paradise.** Limbus patrum.

.7 **Limbo.** Limbus infantum

.8 **Resurrection.**

.9 **Judgment.** See 232.7, Christology.

237 Future State. See 218, Natural theology.

.1 **Eternity.**

.2 **Immortality.**

.3 **Conditional Immortality.**

.4 **Heaven.**

.5 **Hell. Gehenna.**

.6 **Retribution. Future Punishment.**

.7 **Eternal Punishment.** See 289.1, Universalists

238 Creeds. Confessions. Covenants. Catechisms.

Divided more closely if wished like 280–289; e. g. 238.19, Greek church.

.1 **Apostles', Nicene, and Athanasian Creeds.**

.2 **Creed of Pius IV. (Trent); and later Roman.**

.3 **Anglican. 39 Articles, A. D. 1551.** See 264.037, Liturgy.

.4 **Continental Prot. Lutheran. Calvinist. Dort.**

.5 **Westminster. Saybrook. Cong'l. Cambridge. Savoy.**

.6–9 **Of other Sects.** Divided like 286–289.

239 Apologetics. Evidences of Christianity.

If preferred, courses of Apologetic lectures may be kept together; e. g. 239.01, Bampton; .02, Boyle; .03, Hulsean; .04, Bohlen; .05, Paddock; .08, Miscellaneous. More usefully each book is classed under the most specific head that will contain it.

.1 **Apostolic Age.**

.2 **Against the Jews.**

.3 **Against the Heathen.**

.4 **Against the Neo-Platonists.** See 273.1, Gnostic heresy.

.5 **Against the English and Scotch Deists.** See 211, Deism.

.6 **Against the French Encyclopedists.**

.7 **Against the Rationalists.**

See 211, Natural theology; 273.8, Agnostic heresy; 149.7, Agnosticism.

.8 **Against the Scientists.** For non-Christian view, see 215.

.9 **Other Special Denials.**

240 Devotional. Practical.

241 Didactic. For Catechisms, see 238.

242 Meditative. Contemplative. See 248, Personal religion.

.1 **Thomas à Kempis.**

243 Hortatory. Evangelistic.

244 Miscellany. Religious novels, Sunday-school books, allegories, etc.

But class Bunyan in 823.42, because of his literary prominence.

245 Hymnology. Religious poetry.

See 223.5, Psalms; 264.038, Psalter.

Divided by languages, like 800, and then by churches, like 280, if denomination is clearly marked.

246 Ecclesiology. Symbolism. Religious art.

246-7 cover religious bearings. For art side see 700.

.1 **Byzantine and Gothic ecclesiology.**

See 723, Mediæval architecture; 726, Religious architecture.

.2 **Primitive church and heathen art.**

.3 **Images in churches. Iconoclasts.**

.4 **Protestantism and religious art.**

.5 **Emblematic and cryptographic art. Catacomb symbols.**

.6 **Liturgic symbolism. Altar. Colors. Lights.**

See 264, Public worship.

.7 **Evangelistic use of music and art, pictorial and plastic. Della Robbias.**

.8 **Eucharistic music. Ambrose. Gregory the Great. Later development.** See 783, Sacred music; 264.2, Public worship.

.9

247 Sacred furniture. Vestments. Vessels. Ornaments, etc.

.1 **Font. Baptistery. Lectern. Pulpit.**

.2 **Tabernacle. Rood screen. Reredos.**

.3 **Sculpture and mortuary design.**

See 718, Monuments; 726.8, Mortuary buildings; 730, Sculpture.

.4 **Illumination. Mosaics. Enamels. Stained glass.**

See 745, Ornamental design; 748, Stained glass.

.5 **Fresco and religious painting.** See 750, Painting.

.6 **Pallium. Mitre. Crozier. Ring.**

.7 **Vestments and altar cloths.**

.8 **Eucharistic vessels.** See 265.3, Sacraments.

.9 **Ornaments, etc. Crucifix. Banners. Thurible. Incense.**

248 Personal religion. Asceticism. See also 273.2, Ascetic heresy.

249 Family devotions. See 264, Public worship.

250 Homiletic. Pastoral. Parochial.

251 Homiletics. Preaching. See 264.6, Public worship.

Divided like 252, for matter *about* special kinds of sermons.

252 Sermons.

The collected sermons on various topics under 252 are divided by churches and sects, like 280. The sermons on specific topics are more useful, like other pamphlets, classed with the topics, e. g. a sermon on family devotions is 249, not 252.4; on strikes, in 331.89. The nine heads below are for collections and cross references, but can be used for separate sermons if the classifier prefers.

.1 **Episcopal charges. Pastorals.**

.2 **Controversial. Polemic.**

.3 **Doctrinal. Dogmatic.** See also 230, Dogmatics.

.4 **Practical. Devotional.**

.5 **Academic. Educational.** See also 378.7, Baccalaureates.

.6 **Political. Public occasions and duties.**

.7 **Consecration. Ordination.**

See also 265.4, Ordination; 265.9, Consecration; 262.16, Polity.

.8 **Expository.**

.9 **Memorial. Obituary. Biographical. Historical.**

The memorial of a special church goes with that church in 280. See 920, Biography.

253 Pastoral visitations, evangelistic.

254 Clerical support. Celibacy.

See also 176.2, Sexual ethics; 248, Asceticism; 613.89, Hygiene.

255 Brotherhoods. Sisterhoods.

In the parish. For Monastic orders, see 271.

256 Societies for parish work. Guilds. Sodalities.

Local societies. Discussion of desirability of such work. For general societies see 206 and 267.

257 Parochial schools. Libraries, etc.

See 377.5, Education; 027.8, Parish libraries.

258 Parish care of sick, fallen, etc.

See 265.8, Ministry of sick; 176.5, Social evil.

259 Other ministrations and work.

260 Church. Institutions and work.

261 The church. Its influence on morals, civilization, etc.

.1

.2

.3 **Church vs. barbarism.**

.4 **Church and morals.**

.5 **Church and intellectual development.** See 377.8, Education.

.6 **Church and civilization.**

.7 **Church and civil government.** See 172.3, State ethics; 322, Church and state

.8 **National churches vs. organic unity.**

.9

262 Ecclesiastical polity.

.1 **Ministry.**
.11 Apostolic succession.
.12 Episcopate.
.13 Papacy. Primacy. Papal supremacy; infallibility, 18 July 1870.
.14 Priest. Presbyter. Minister. Lay ministry.
.15 Deacon. Deaconess. Evangelist.
.16 Orders. Ordination. See 265.4, Sacraments; 252.7, Sermons.
.17 Episcopal.
.18 Presbyterian.
.19 Congregational.
.2 **Parish. Congregation.** See 250 for Parochial work.
.3 **See. Diocese. Cathedral system.**
.4 **Council. Synod. Presbytery. Congregation. Convention**
Polity only, here. Proceedings go with churches, 281-9.
.5 **General or œcumenical council.** See also 270.2.
.6 **Canons. Decrees.**
.7 **Traditions.**
.8 **Authority. Church and ministerial. Private judgment.**
.9 **Discipline. Courts. Trials.** For Canon law see 348.

263 Sabbath. Lord's day. Sunday.

.1 **Hebraic sabbath.**
.2 **Modern sabbath. Seventh day.**
.3 **Lord's day. Christian Sunday.**
.4 **Sunday observance.**
.5 **Work.**
.6 **Amusement.**
.7 **Opening libraries and museums.**
See also 024.4, Library rules.
.8 **Sunday laws.**
.9

264 Public worship. Divine service. Ritual.

See also 246, Ecclesiology; 247, Sacred furniture. General works are divided by Churches like 280. Under various Churches the services may be further divided, as, e. g.

.03 Anglican and American P. E. ritual.
.031 Calendar. Festivals and fasts. See also 529.6, Chronology.
.032 Lectionary and rubrics.
.033 Morning prayer. Litany.
.034 Evening prayer. Vespers. Compline.
.035 Sacraments, ordinances, and services. See also 265, Sacraments.
.036 Collects, epistles and gospels.
.037 Ordinal. Articles. Creeds. See also 238.3, Creeds, doctrines.
.038 Psalter and other. See 223.5, Psalms; 245, Hymnology.
.039 History of successive prayer books.

264.1 **Prayer. Extempore. Liturgic.**
See also 248–249, Private and Family Prayer.

.2 **Music. Singing. Instrumental. Praise Meeting.**
See also 783, Sacred Music; 246.7, 246.8, Ecclesiology.

.3 **Scripture Readings.**

.4 **Antiphonal or Responsive Readings.**

.5 **Confessions of Faith. Creeds.** See also 238, Creeds.

.6 **Sermons. Exhortations. Instructions.**
See also 251 and 252, Preaching and Sermons.

.7 **Prayer and Conference Meetings.**

.8 **Class and Covenant Meetings. Love Feasts.**

.9 **Sacramentals.** See also 265, Sacraments.

265 Sacraments. Ordinances.

.1 **Baptism.**

.2 **Confirmation. Church Fellowship.**

.3 **Eucharist. Holy Communion. Sacrifice.**

.4 **Holy Orders. Ordination.** See also 262.10, Ministry; 252.7, Sermons

.5 **Marriage.** See 173, Ethics of the Family.

.6 **Penance. Confession. Absolution.**

.7 **Extreme Unction. Viaticum.**

.8 **Ministry of Sick and Dead. Faith Cure. Healing. Burial.**

.9 **Consecration. Dedication.** See 262.16, Ordination; 252.7, Sermons.

266 Missions. Home and Foreign.

Subdivided by Churches, like 280. See also 377.6, Missionary schools.

Missions in special countries or places, including those of all churches, go under the geographically divided Religious History, 274–279, with references under 266.

267 Associations.

General societies demanding of members active personal work. For local societies see 256. For Bible, tract, and similar general societies see 206.

.1 **Religious societies of both men and women.**

.11 U. S. Christian commission.

.15 Salvation army.

.2 **Religious societies of men.**

For Y. M. C. A. see 267.3; missionary societies, 266; ministerial education societies, 207; Bible societies, 206.

.21 17th century or earlier. } May be divided by countries like 940–99.

.22 18th century. }

.23 19th century; inter- and undenominational.

.231 In educational institutions. Divided like 940–99. If preferred, cancel .231 and put all together in .234-9. For work of Y. M. C. A. see 267.361.

.232 "Nasmith" societies.

.233 Young men's Christian unions; i. e. not "evangelical," etc.

.234–.239 Others. Divided like 940–99.

.24 19th century; denominational.

.241 In educational institutions. Divided like 282–289. If preferred, cancel .241 and put all together in .242–9. For work of Y. M. C. A. see 267.361.

.242–.249 Others. Divided like 282–289.

.3 **Young Men's Christian Associations.**

Active membership confined to members of "evangelical" churches.

To shorten the number, X may be used for 267.3 throughout; i. e. X 19 would mean "Work in small towns."

267.31 **Objects, field and extension.**

.311 Need and objects.

.312 Limits; — for and by young men and distinctively religious.

.313 Relation to the church.

.314 International work.

.315 National work.

.316 State work.

.317 District work.

.318 Work in towns able to support a general secretary.

.319 Work in small towns.

} Methods only. For history, reports and periodicals see 267.39; for secretaries see 267.341.

.32 **Buildings.** See library buildings 022.

.321 Location. Provision for growth.

.322 Materials and protection against fire.

.323 Plans. Number, size and arrangement of rooms.

.324 Reception, social rooms and parlors.

.325 Library. Reading, lecture, and class rooms. See 022.

.326 Administration and special rooms. Boys' rooms.

.327 Physical culture rooms.

.328 Lighting, heating, and ventilation.

.329 Fixtures, furniture, and fittings.

.33 **Organization.**

.331 Incorporation. Constitution and by-laws.

.332 Branches and sub-organizations. Including women's work for young men.

.333 Managers. Officers serving without pay.

1, Trustees (in charge of real estate).
2, Directors.
3, President.
4, Treasurer.
5, Recording secretary.
6, Executive or Corresponding secretary.

.334 Standing committees.

1, Importance; enlistment and composition.
2, Principles and methods of organization.
3, Names and duties. See also Department work 267.35.

.335 Membership.

1, Membership committee.
2, Classes of membership.
3, Securing and retaining members.
4, Development of active members.
5, Associate membership and its relations.

For members' meeting see Social work, 267.3544.

.34 **Salaried officers. Duties, qualifications, training.**

.341 General secretary and assistants. Including international and state secretaries. See also 267.314-.316.

1, Office and work.
2, Qualifications.
3, Relationship: 31, To churches and pastors; 32, To officers, directors, and committees; 33, To other employees; 34, To the members; 35, To the religious work; 36, To the business community; 37, To his fellow secretaries.
4, Personal hints: 41, considering a call and beginning work; 42, Spiritual and intellectual growth and health; 43, Office work, system, and economy; 44, Personal appearance and conversation; 45, Ladies' company; 46, "Secretarialism."

267.342 Librarian and assistants. May be divided like 267.341. See also Library administration, 025 and 267.3532.

.343 Physical director and assistants. May be divided like 267.341. See also 267.355 and 613.7.

.344 Other salaried officers.

.345 Training; need and methods, demand and supply.

.346 Training schools.

.347 Training by apprenticeship.

.348 Institutes. } Methods only; for reports see 267.39.

.349 Conferences. }

.35 **Local work by departments.**

.351 Business department.

1, Finance committee.
2, Annual budget.
3, Endowments and other sources of income.
4, Solicitation, collection and disbursement.
5, Financial book-keeping.
6, Debt, taxes, &c.
7, Records and statistics.
8, Advertising, including anniversaries and parlor conferences.
9, Printed matter. Including bulletin, prospectus, etc.

.352 Religious department.

1, Committees.
2, Individual Bible study. Methods and helps.
3, Bible classes.
4, Training classes. Personal work.
5, Bible readings. Song services.
6, Evangelistic meetings.
7, Social religious meetings.
8, Other meetings in the rooms.
9. Work outside the rooms. In public institutions, sermons to young men, distribution of religious papers, invitations, etc.

.353 Educational department.

1, Committees.
2, Library. See 267.342 and 025.
3, Reading room.
4, Classes.
5, Lectures and talks.
6, Literary societies.

.354 Social department.

1, Committees.
2, Reception committee.
3, Social rooms and fittings. See 267.32.
4, Receptions. Socials. Entertainments.
5, Music.
6, Amusements. Including games of skill. See also 794.

267.355 Physical department.
1, Committees.
2, Aim and benefit of department. For Physical director see 267.343; Equipment, methods, etc., 613.7.

.356 Information, relief, etc., department.
1, Boarding house bureaus.
2, Employment bureau.
3, Savings bureau.
4, Visitation of sick.
5, Destitute young men.

.357 Boys' department.
1, Committees.
2, Religious work.
3, Educational work.
4, Social work.
5, Physical work.
6, Information, relief, etc.

.358

.359 Janitor's department. Building; care, cleaning, safety. Police.

.36 **Work among special classes.**
Y. M. C. A. only; other religious societies of men go in 267.2.

.361 College and school.
1, History and methods in general.
2, International reports. Including Northfield meetings.
3, International periodicals.
For state and sectional reports and periodicals see 267.39.

.362 Railroad employes.
1, History and methods in general.
2, International reports.

.363 Commercial travelers.
.364 Foreign-speaking. Divided like 400; e. g. 3, German, 4, French, 5, Italian, etc.
.365 Colored men.
.366 American Indians.
.367 Soldiers. U. S. Christian commission, 267.11.
.368 Sailors.
.369 Other. Policemen, firemen, fishermen, lumbermen, mutes, etc.

.37

.38

.39 **History, reports, periodicals, etc.** For methods see 267.314–.319.
.391 International history.
.392 International reports, etc.
1, Reports.
2, Other pamphlets.
} Reports, etc., of international college and railroad work go in 267.361–.362.

.393 International periodicals. International college periodicals, 267.3613.

.394–.399 Divided like 940–999.

267.4 **Religious societies of women.**

.41

.42

.43 19th century; inter- and undenominational.

.431

.432 Women's Christian associations.

Divided like 267.3. To shorten the number, W may be used for 267.432 throughout; e. g. W 1 would mean "Objects, field and extension."

.433 King's daughters.

.44 19th century; denominational. Divided like 282–289.

.5 **Young Women's Christian Associations.** Active membership confined to members of "evangelical" churches.

Divided like 267.3–.399.

To shorten the number Y may be used for 267.5; e. g. Y 3, Organization, instead of 267.53.

.6 Religious societies of young people. For Sunday schools see 268.

.61 Inter- and undenominational.

.611

.612

.613 Young people's society of Christian endeavor.

1, Reports, etc.

2, Periodicals.

.62 Denominational. Divided like 282–289.

.7 **Religious societies of boys.** Not Y. M. C. A. Divided like 267.6.

.8 **Religious societies of girls.** Not Y. W. C. A. Divided like 267.6.

9.

268 Sunday Schools.

269 Revivals. Retreats. Parish Missions.

270 Religious History.

Ancient Period. To Conversion of Germans.

See 281.1–281.4, for collected works of early theological writers, etc. 270 is for religious history of these *periods*.

For religious history of special countries, either general or for special periods, see country divisions, 274–279; e. g. English reformation, 274.2.

.1 **Apostolic. Nativity to Constantine.**

.2 **Period of Œcumenical Councils. Centralization. A. D. 325-787.**

The Greek Church acknowledges these seven Councils as really Œcumenical. Anglicans generally recognize only the first six. See also 262.5, Polity.

.21	First of Nice,	A. D. 325.
.22	First of Constantinople,	381.
.23	First of Ephesus,	431.
.24	Chalcedon,	451.
.25	Second of Constantinople,	533.
.26	Third of Constantinople,	681.
.27	Second of Nice,	787.

Mediæval Period. Charlemagne to Luther.

270.3 **Charlemagne. Papacy vs. Empire. A. D. 787–1054.**
Church planted among the Germans. Feudalism. Great schism, east *vs.* west, 1054.

.4 **Hildebrand. Roman Supremacy. A. D. 1054–1200.**
Temporal Power. Scholasticism. First three Crusades.

.5 **Later Mediæval. Renaissance. A. D. 1200–1517.**
Innocent III. Papal Schism. Avignon. Nominalism *vs.* Realism. Greek Church under Moslems. Education. Arts. Inventions. Pre-Reformation.

Modern Period. Reformation to present.

From A. D. 1517, Theology in Europe is in three types, viz.: Roman, Lutheran, and Reformed or Calvinistic.

.6 **Reformation. Counter-Reformation. A. D. 1517–1648.**
Council of Trent, A. D. 1545-63. Diet of Augsburg. Luther. Melancthon. Calvin. Knox. Religious Wars. Jesuit Missions in East. See also Reformation in England, etc., 274.2.

.7 **Peace of Westphalia to French Revolution. A. D. 1648–1789.**
Union of Church and State. Deism. Materialism.

.8 **Modern. Rationalistic. A. D. 1789-**
Holy Alliance. Greek Church in Russia. Atheism. Pantheism. Protestant Missions.

271 Monastic Orders.

See also 255, Brotherhoods; 377.3, Monastic schools.

.1 **Benedictines. Founded A. D. 529.**

.2 **Dominicans.** ,, ,, 1170.

.3 **Franciscans.** ,, ,, 1182.

.4 **Augustinians.** ,, ,, 1256.

.5 **Jesuits.** ,, ,, 1540.

.6 **Passionists.** 1720. **Redemptorists.** 1732.

.7 **Lesser Roman Orders.**

.71 Carthusians. Founded A. D. 1086.
.72 Cistercians. ,, ,, 1098.
.73 Carmelites. 12th Century.
.74 Trappists. 1150. Capuchins. 1525.
.75 Sulpicians. 1642.
.76 Oblates.
.77 Lazarists. 1624.
.78 Christian Brothers. 18th Century. De la Salle.
.79 Other Lesser Roman Orders.

.8 **Anglican Brotherhoods.**

.9 **Sisterhoods.**

.91 Sisters of Charity. Vincent de Paul. Founded A. D. 1629.
.92 Sisters of Mercy. Augustinian. ,, ,, 1831
.93 Ladies of the Sacred Heart. Jesuit. ,, ,, 1800.
.94 Sœurs de bon Secours. Nurses.
.95 Little Sisters of the Poor.
.96 Contemplative. Cloistered Nuns.
.97 Other Roman Sisterhoods.
.971 Carmelites.
.972 Second of St. Dominick.
.973 Franciscans.
.974 Ursulines. A. D. 1537.
.975 Of the Visitation. ,, 1610.
.976 Of St. Joseph. ,, 1650.
.977 Of the Presentation. ,, 1777.
.98 Anglican Sisterhoods.
.99 Other Protestant Orders. Deaconesses. (Kaiserwerth.)

272 Persecutions.

.1 Apostolic Church by Imperial Rome. 1st to 4th Century.

.2 Heretics, by Inquisition or Holy Office. Since 1470. ,,

.3 Waldenses and Albigenses. 11th and 12th Cent. By R.Ch.
See also 284.4, Protestant sects.

.4 Huguenots. French Protestants. St. Bartholomew, 1572. Edict Nantes, 1598, Revocation, 1685. By Rom. Ch.
See also 284.5, Protestant sects.

.5 Molinists and Quietists. Close of 16th Century to destruction of Port Royal, A. D. 1709. By Roman Catholics.
See also 273.7, Heresies.

.6 Marian. Anglican Reformers by Mary. A. D. 1553–8. ,,

.7 Elizabethan. Later 16th Century. Rom. Ch. by Anglicans.

.8 Quakers. Baptists. Witches. Later 17th Cty. By Puritans.
See also 133.4, Witchcraft.

.9 Other Persecutions.

273 Heresies.

For the history of special Doctrines see 230–239, Doctrinal Theology.

.1 Gnostic.—Reaction of Pantheism and Heathen Philosophy on Christianity. 1st three Centuries.
See also 189.1, Gnostic philosophy; 186.4, Neo-Platonism; 239.4, Apologetics.

.2 Manichæism.—Parsee Dualism. Opposition of Good and Evil. Mystic. Ascetic. 3d Century.
See 149.3, Mysticism; 248, Asceticism.

.3 Sabellian.—That the Trinity is not of persons, but of successive manifestations. About 250 A. D. (Held by Schleiermacher, Bushnell, Swedenborg.)

.4 Arian.—Denying Divinity of Christ. 4th Century.

.5 Pelagian.—Denying Original Sin and Supernatural Grace. 5th Century.

.6 Antinomian.—Denying force of Law, under Gospel Dispensation. 16th Century.

.7 Molinist and Jansenist. Pietists. Port Royal.—Augustine's doctrine of Grace, vs. the Roman doctrine of Good Works. A. D. 1580–1700.

.8 Agnostic.—Denying possibility of Revelation. Holding that Theology and the Supernatural lie without the domain of Human Knowledge.
See also 149.7, Philosophy; 211, Atheism; 239, Apologetics.

.9 Minor Heresies.

274 to 279 General Religious History. By Countries.

274–279 is divided geographically like 940–999.

280 Christian Churches and Sects.

281-289.8 may be subdivided where needed like 940-999.

281 Primitive and Oriental Churches.

See also 270.1 to 270.3, Early Religious History.

.1 **Apostolic Church, to time of Great Schism, A. D. 1054.**

Works of Apostolic and Christian Fathers here; use 270 for religious history of these periods. See also 229.9, Apocryphal books.

.2 **Primitive Apostolic, to end of First Century.**

.3 **Ante-Nicene, A. D. 100-325.** See also 270.1.

.4 **Post-Nicene, A. D. 325-1054.** See also 270.2-3.

.5 **Oriental Churches.**

.6 **Armenian.**

.7 **Coptic.**

.8 **Nestorian.**

.9 **Eastern or Græco-Russian or Holy Orthodox Church.**

The Great Schism, Mutual Ex-communication, A. D. 1054, separates the Catholic Church into Eastern and Western Churches, which from this time have separate histories.

282 Western or Roman Catholic Church.

Divided geographically like 940-999.

283 Anglican and American P. E. Church.

Divided geographically, when needed, like 940-999; e. g. the Anglican Church in Australia is 283.94; India, 283.54.

284 Continental Protestant Sects. Protestantism.

.1 **Lutheran. Reformed.** See also 285.7, Reformed church in America.

.2 **Calvinist; Zwinglian.** See 285, and 286.1.

.3 **Hussites. Anabaptists. Leyden.** See 286.1.

.4 **Albigenses. Waldenses. Vaudois.** See 272.3.

.5 **Huguenots.** See 272.4.

.6 **Moravian.**

.7 **Scandinavian. Swedish.**

.8 **Old Catholic.**

Here are classed those denying Papal Infallibility, or for other cause cut off from Rome, though Catholic in other respects.

.9 **Other.**

285 Presbyterian. Reformed. Congregational.

.1 **Presbyterian Church in America.**

.2 **Presbyterian Church in Great Britain.**

.3 **Cumberland Presbyterian.**

.4 **United Presbyterian.**

.5 **Reformed Presbyterian.**

.6 **Minor Presbyterian Sects.**

.7 **Reformed (Dutch) Church in America.** e. g. 285.77471, in N. Y. City

.8 Congregational.

.9 Puritanism.

286 Baptist.

.1 **Calvinistic.** .2 **Free Will.** .3 **Seventh Day.**

287 Methodist.

.1 **Wesleyan Methodist.**
.2 **Calvinistic Methodist.**
.3 **Welsh Calvinistic Methodist.**
.4 **Primitive Methodist.**
.5 **Primitive Wesleyan.**
.6 **Methodist Episcopal.**
.7 **Protestant Methodist.**
.8 **African Methodist.**
.9 **Minor Methodist Sects.**

288 Unitarian. See 273.4.

289 Minor Christian Sects.

.1 **Universalist.**
.2 **Campbellite or Christian. Disciples.**
.3 **Adventist.** See also 232.6, Second coming of Christ.
.4 **New Church or Swedenborgian.**
.5 **Catholic Apostolic.**
.6 **Quakers. Friends. Hicksites.**
.7 **Mennonite.**
.8 **Shaker. Mystic.**
.9 **Other Minor Christian Sects.**

290 Ethnic. Non-Christian.

291 Comparative and General Mythology.

292 Greek and Roman Mythology.

293 Teutonic and Northern Mythology.

294 Brahmanism. Buddhism. For other Indic Religions, see 299.11.
See also 891.2, Sanskrit literature; 177.5, Caste.

295 Parseeism. Zend Avesta. For other Iranic Religions, see 299.15.
See also 891.52, Zend literature.

296 Judaism. For other Semitic Religions, see 299.2.

297 Mohammedanism.

298 Mormonism. See 173.2, Polygamy.

299 Minor Non-Christian Religions.
Subdivided ethnically like 491–499; e. g. Egyptian religion, 299.31; Afghani religion, 299.158.

Sociology.

300 Sociology in General.

301–309 all have Sociology in General as their subject, but it is treated in these various forms. A periodical on Education goes 370.5, not 305, which is only for periodicals on Sociology in General. In Sociology, most works in these forms are limited to one Division; e. g. to Political Economy, Education, Law, etc. All these have the same subdivision of General Works; i. e. Essays on the various divisions are 310.4, 320.4, 330.4, and so on to Essays on Manners and Customs in General, 390.4. A Zero in any class number shows the subject to be general, not specific.

301 Philosophy. Theories.

See Philosophy of History, 901.

302 Compends, Outlines.

303 Dictionaries, Cyclopedias, etc.

304 Essays, Lectures, Addresses.

305 Periodicals, Magazines, Reviews.

306 Societies, Transactions, Reports.

307 Education, Teaching, Study, etc. See also 370.

308 Polygraphy, Collected Works, Extracts, etc.

Put here collected works of statesmen; e. g. works of Adams, Jefferson, etc.

309 History of Social Science.

310 Statistics.

311 Theory, Methods. Science of.

312 Population. Progress of. Vital Statistics. Births. Deaths. Mortality. Longevity.

See also 614.1, Registration and vital statistics.

Statistics are divided geographically like 930–999; e. g. Population of Maine is 312.741.

313 Special Topics.

314 to 319 General Statistics. Divided geographically like 940–999.

The Statistics of any special matter are put with the subject, e. g. of Domestic Animals in 636, of Short Hand in 653, of French Novels in 843, of Theaters in 792, etc. Statistics too general to be included in any topic are divided by countries. The Statistics of New York City would be 317.471, but the statistics of Medicine in New York would be put with 610, Medicine, i. e., the Topic outranks the Locality.

320 Political science.

.1, Theory of the state; .2, Compends, statecraft; .3, Dictionaries; .4, Essays; .5, Periodicals; .6, Societies; .7, Education; .8, Polygraphy; .9, History of political science, divided like 930–999.

321 Form of state.

This is for discussion of form of state, what should be; for what is, see 342, Constitutional law and 353–354, Administration.

- .1 **Family. Patriarchal age.**
- .2 **Tribes. Clans. Marks. Village communities.**
- .3 **Feudalism.**
- .4 **Democracy.** Pure; e. g. Athens, Town meeting.
- .5 **Aristocracy.** e. g. Italian republics. Mediæval German cities.
- .6 **Absolute monarchy.**
- .7 **Constitutional monarchy.**
- .8 **Republic.** Modern democracy, delegated powers.

322 Church and state. See also 172.3, State ethics; 261.7, The church.

323 Internal or domestic relations.

Free speech, Liberty of the press; see also 070, Newspapers; 179.1, Morals of the press.

324 Suffrage.

- .1 **Qualifications. Age. Property. Education. Color. Race, etc.** See also 325.1, Naturalization.
- .2 **Forms of suffrage. Universal. Limited. Minority representation. Class system. Cumulative, etc.**
- .3 **Woman suffrage.** See also 396.3, Woman; 329.83, Woman suffrage party.
- .4–9 **In special countries.** Divided like 940–999.

325 Colonies and immigration.

- .1 **Immigrants and naturalization.**
- .2 **Emigrants.** Divided by countries like 930–999.
- .3 **Colonization.** Divided by country like 940–999.
- .4–9 **In special countries.** Divided like 940–999, by country in which planted.

326 Slavery. See also 973.7, Civil war; 371.94, Education of freedmen.

- .1 **Slave trade.**
- .2 **Coolies and contract slaves.**
- 3 **Serfs and serfdom.**
- .4 **Anti-slavery documents.**
- .5 " periodicals.
- .6 " societies.
- .7 **Pro-slavery.**
- .8 **Emancipation and freedom.**
- .9 **History of slavery.** Divided geographically like 930–999.
- .92 Biography of slaves.

327 Foreign relations. Divided geographically like 930–999

328 Legislative bodies and annals.

.1 **Parliamentary law.**

.2

.3

.4–9 **Of special countries.**

Divided by countries like 940–999, and under each, works may be divided: .1, Journals; .2, Debates; .3, Abstracts; .4, Documents; .5, Rules; .8, Legislative manuals; .9, History of bodies.

329 Political parties. Party conventions.

329.01, U. S. presidential campaign documents of all parties, arranged by campaigns.

.1 **Federal.**

.2 **Anti-Federal.**

.3 **Democratic.**

.4 **Whig.**

.5 **American. Know-nothing.**

.6 **Republican.**

.7

.8 **Minor parties.**

.81, Prohibition, see also 178.5, Ethics; .82, Greenback, see also 332.5, Paper money; .83, Woman suffrage, see also 324.3, Suffrage; .84, People's; .85, Labor, see also 331.8, Laboring classes.

.9 **Parties in other countries.** Divided geographically like 940–999.

330 Political economy.

.1, Theories; .2, Compends; .3, Dictionaries; .4, Essays; .5, Periodicals; .6, Societies; .7, Study and teaching; .8, Polygraphy; .9, History.

331 Capital. Labor and wages.

.1 **Relations of capital to labor.**

.2 **Wages. Comparative wages. Profit sharing. Compulsory insurance.**

.3 **Labor of children.** See also 179.2, Cruelty to children.

.4 **Labor of women.** See also 396.5, Woman.

.5 **Convict labor. Prison contracts.** See also 365, Prisons.

.6 **Pauper labor. Cheap foreign labor. Chinese.**

See also 339, Pauperism; 362.5, Asylums.

.7 **Skilled and unskilled labor.**

.8 **Laboring classes.** See also 329.85, Labor party.

.81 Hours of labor.

.82 Places of labor. Dangers.

See also 613.6, Hygiene; 622.8, Mining; 614.8, Protection of life.

.83 Food. Clothes. Shelter. See also 640, Domestic economy.

.84 Morals and habits. Thrift. Temperance. Amusements. Temptations.

See also 170, Ethics; 790, Amusements; 263.6, Sunday.

.85 Helps. Lectures. Libraries. Reading-rooms, etc.

See also 374.5, Popular lectures; 020, Libraries; 263.7, Sunday.

.86 Training. Apprenticeship.

.87 Organization of labor.

.88 Trade unions and other labor societies. See also 338.6, Guilds.

.89 Strikes.

332 Banks. Money. Credit. Interest.

.1 **Banks and Banking.**

.11, National; .12, State; .13, Private; .14, Trust companies; .15, Foreign. See also 334.2, Co-operative banks.

.2 **Savings Banks.**

.3 **Loan Institutes.**

.31 Credit Institutes.

.32 Building Associations. See 334.1, Co-operation.

.33 Monts de Piété. Governmental.

.34 Pawn Shops. Private.

.4 **Coins and Coinage. Mints.**

.41 Coinage Metals. Production and Value. Gold. Silver. Nickel. Copper.

.42 Single and Double Standard.

.43 International Standards.

.44 Monetary Congresses.

.45 Comparative Value of Moneys.

.46 Mints.

.47 Coinage Laws.

.48

.49 History of Mints and Coinage. Divided geographically like 940–999.

.5 **Paper Money. Public and Private Notes.** See 320.82

.6 **Stocks and Stock Exchanges. Bonds.**

.7 **Credit. Credit System.**

.8 **Interest and Usury.** See also 336.31, Public securities.

.9 **Counterfeiting. Forging.** See 343, Criminal Law.

333 Land. Ownership, Rights, and Rent.

See 338, Production; and 630, Agriculture.

.1 **State Ownership.**

.2 **Community Ownership.**

.3 **Private Ownership.**

.4 **Absentee Owners. Alien Owners.**

.5 **Rent of Land for Cultivation.**

.6 „ „ **Building.**

.7 **Forests.**

.8 **Mines.**

.9 **Fisheries.**

334 Co-operation.

.1 **Building Societies. Loans. Organization.** See also 332.32.

.2 **Co-operative Banks.** See also 332, Banks.

.3 „ **Insurance Societies.** See also 368, Insurance.

.4 „ **Housekeeping.** See also 640, Domestic economy.

.5 „ **Consumptive Associations. Stores.**

.6 „ **Productive Associations. Factories.**

.7 **Friendly Societies.**

.8 **Burial Societies.**

335 Socialism and Communism.

.01, Theory of property.

.1 **English Socialism.**

.2 **Saint Simonism.**

.3 **Fourierism.**

.4 **Communism.**

.5 **German Socialism. Social Democracy.**

.6 **State Socialism. Socialism of the Chair.**

.7 **Christian Socialism.**

.8

.9 **Socialistic Communities.**
Divided by countries like 930-999.

336 Finance.

.1 **State Domain and Properties.**

.11 Management and Income from Rents.

.12 Sale.

.13 Land Claims.

.14 Land Grants to Railroads, Colleges, etc. See also 379.12, Education.

.19 State Monopolies. e. g. French State Monopoly of Tobacco Trade. See also 338.8, Monopolies.

.2 **Taxation.**

.21 Direct.

.22 Real Estate.

.23 Personal.

.24 Income.

.25 Poll.

.26 Customs. Specific or Ad Valorem. See 337, Protection.

.27 Excise. Licenses. Liquor Dog. Legacies. Stamp Duties. See also 178.4.

.28 Local Taxes. See also 379.13, School funds.

.29 Assessment and Collection of Taxes.

.3 **Loans. Public Securities.**

.31 Interest-bearing Securities. See also 332.8, Interest.

.32 Floating Debt.

.33 Sinking Fund.

.34 Public Credit.

.35 Annuities.

.36 Repudiation.

.4-9 **Finance of Special Countries.** Divided geographically like 940-999.

337 Protection and Free Trade.

See also 336.26, Customs.

.1 **Absolute Free Trade. No Tariff.**

.2 **Free Trade, i. e. Tariff for Revenue only.**

.3 **Protection.**

.4 **Subsidies.**

.5 **Duties on Special Articles. Steel, Wool, etc.**

.6 „ „ **Raw Materials.**

.7 „ „ **Books and Works of Art.**

.8 **Duty Free Importation for Colleges, etc.** See also 021.9, Libraries

.9 **Reciprocity.**

338 Production. Manufacture Prices.

.1 **Agricultural products.**

.2 **Mining products.** See also 332.41, Coinage metals.

.3 **Water ,, Fish, ice, etc.**

.4 **Manufactured products. Machinery in industry.**

.5 **Prices.**

.6 **Guilds.** See also 331.88, Trades unions.

.7 **Corporate industries.**

.8 **Monopolies.** See also 336.19, State monopolies.

.9 **Industrial legislation.** Divided geographically like 940–999.

339 Pauperism. See also 379.22, Illiteracy; 362.5, Pauper asylums; 331.6, Pauper labor

340 Law.

General works.

Most periodicals belong in Private law, 347.05.

.1 **Philosophy. Theories. Law of nature.**

.2

.3 **Antiquities. Torture. Trial by ordeal. Duel, etc.**

.4 **Trial by jury.**

.5 **Comparative legislation.**

.6 **Medical jurisprudence.** See also 614.23, Expert testimony.

.7 **Education. Law school. Office training.**

.8 **Polygraphy. Collections.**

.9 **Legal anecdotes and miscellany.**

Public law.

341 International law.

.01, Philosophy; .02, Compends, etc., like 300.

.1 **International congresses.**

Of diplomatic agents for settling international relations. Congresses on special topics go with their subjects; e. g. 332.44, on Coinage.

.2 **Treaties. Texts and history.**

Class with most important country, dividing like 940–999.

.3 **Law of war. Captives. Neutrals.**

.4 **International criminal law.**

.5 **International private law.**

.6 **Arbitration.**

.7 **Diplomacy.**

.8 **Consular systems.**

342 Constitutional law and history.

Divided by countries like 930–999. Under each, works may be divided: 1, Texts of constitution; 2, Conventions; 3, Systems; 4, Essays; 8, Polygraphy; 9, History.

For Administrative law, see 350.

343 Criminal law.

.1 **Criminal trials.**

.2 **Punishments.**

Corporal. Death penalty. Hard labor. Confinement.

.3–9 **Of special countries.** Divided by countries like 930–999.

Under each country, works may be divided: 1, Penal codes; 2, Reports; 3, Criminal procedure; 4, Text books and manuals.

344 Martial law

Private Law.

345 U. S. Statutes and Cases.

Divide each of the sections .1–.5, using 1, U. S.; 2, Individual states arranged alphabetically; e. g. Statutes at large of U. S., 345.11; Acts and resolves of Mass., 345.12.

.1 **Session Laws.**

.2 **Codes. Revised Statutes.**

.3 **Law Digests (of Statutes).**

.4 **Reports.**

Use .4, U. S. Supreme Court; .41, U. S. Circuit and District Courts; .415, Periodical collections of various states; e. g. Eastern Reporter, etc.; .42, Reports of individual states.

.5 **Digests of Cases.**

346 British Statutes and Cases.

Divided like 345. Includes all reports in English language except U. S. reports.

347 Treatises. American and English Private Law.

.01, Philosophy; .02, Compends; .03, Dictionaries; .04, Essays; .05, Periodicals; .06, Societies, Bar associations; .08, Polygraphy; .09, History.

Put law of special topics with the subject; e. g. Insurance law, 368. The divisions .1–.8 may be disregarded and all English law text-books arranged in one alphabet by authors. An elaborate division, similar to Medicine, will be published after further revision.

.1 **Persons. Legal Capacity.**

.2 **Realty.**

.3 **Chattels. Movables.**

.4 **Contracts.**

.5 **Torts.**

.6 **Family Law and Inheritance.**

.7 **Commercial and Maritime.**

.8 **Equity.**

.9 **Civil Trials. Procedure.**

.91 Civil Trials.

.92 Pleading.

.93 Forms.

.94 Evidence. Testimony in general not limited to civil trials.

.95 Remedies.

.96 Justices of the Peace. Notaries. Sheriff.

.97 Organization of Courts.

.98 Jurisdictions.

.99 History of Special Courts.

348 Canon Law.

349 Foreign Law.

Divided like 930–990, and under each modern state divided like 345 with decimals .71 to .79 used for Treatises like 347. e. g. 349.4475 is French Law of Torts. 349.442 is French Code. Roman Law is divided:

.37 Roman Law.

.01, Philosophy; .02, Compends; .03, Dictionaries; .04, Essays; .05, Periodicals; .06, Societies; .07, Education; .08, Polygraphy; .09, History.

.371 Sources. Ante-Justinian.

.372 " Justinian.

.373 History and Criticism of Sources.

.374 Institutes. Ancient Roman Law.

.375 Pandects. Modern " "

.377 Treatises on Special Topics.
Divided like 347.

350 Administration.

Including Military science. .1, Theory; .2, Compends; .3, Dictionaries; .4, Essays; .5, Periodicals; .6, Societies; .7, Education; .8, Polygraphy; .9, History. A large number of the questions properly placed under Administration are classed with related topics elsewhere. Some of these are repeated here, both to show the scope of the subject "Administration" and to provide for cross references by those specially interested. See also 342, Constitutional law and history.

351 Administration of Central Government.

.1 Organization of Civil Service.

Officers. Method of election or appointment. Official functions and powers. Mutual relations.

.2 Civil Lists.

.3 Examination.

.4 Tenure of Office. Discipline. See 351.92, Power of removal.

.5 Pensions.

.6 Reform. Spoils System vs. Office-holding Class.

.7 Subjects of Administrative Action.

See also 353, United States; 354, Foreign states.

.71 Financial Administration.

See 336, Finance, Public property, Taxation.

.72 Budget. Public Accounts.

.73 Internal Affairs.

See also 323, Domestic relations.

.74 Police Measures.

.75 Public Safety and Order.

See also 352.2, Police; 365, Prisons, etc.

1, Press.

2, Reunion and Association.

3, Weapons.

.76 Vice and Good Manners.

1, Liquor Regulation. See 178, Temperance.

2, Public Gaming. See 174.6, Ethics.

3, Public Begging, etc. See 339, Pauperism.

4, Prostitution. See 176.5, Ethics.

.77 Sanitary Police.

See 352.4, Boards of health; 614, Public health, etc.

.78 Accidents. See 614.8, Public health.

1, Buildings. See 614.85.

2, Fires. See 614.84.

351.8 Promotion of Public Welfare.

.81 Means of Communication.

See 380, Commerce, Communication.
1, Highways. See 386; 352.7, Local government.
2, Railways. See 385.
3, Waterways. See 386; 387.
4, Ferries.
5, Bridges. See 352.7, Local government.
6, Post Office. See 383.
7, Telegraphs. See 384.

.82 Trade and Industry.

1, Weights and Measures. See 389, Commerce.
2, Coinage and Money. See 332, Banks, Money.
3, Landed Industry.
Agriculture. See 630, Useful arts; 338.1, Production
Forests. See 634.9, Agriculture; 333.7, Land.
Mines. See 622, Mining; 338.2, Production; 333.3, Land.
4, Commercial and Manufacturing Industry.
See 380, Commerce; 338, Production.
5, Institutions of Credit. See 332, Banks, Credit.
Savings Banks. See 332.2.
Mutual Benefit Societies. See 334, Coöperation.
Insurance. See 368; 334.3, Coöperative insurance.
Monts de piété. See 332.33.

.83 Labor. See 331, Capital, Labor, Wages.

.84 Public Charity.
See 339, Pauperism; 360, Associations and Institutions.

.85 Education and Worship.

1, Public Education. See 379, Education.
2, Public Libraries. See 027.4, Library economy.
3, Art Museums. See 708, Art.
7, Worship. See 322, Church and State.

Military and Naval. See 355-359, Army and Navy.

Justice. See 340, Law.

Foreign Affairs. See 341, International law; 327, Political science.

.9 Control over the Administration.

.91 Administrative Control.
By superior officers.

.92 Disciplinary Power.
Power of removal. See also 351.4, Tenure of office.

.93 Supervision.
Power to annul or amend specific acts.

.94 Judicial Control.
1, Ordinary Courts. See 347.5, Law of torts.
5, Criminal Courts. See 343, Criminal law.

.95 Administrative Courts.

.96 Parliamentary Control.

.97 Petitions and Addresses.

.98 Investigations.

.99 Impeachment.

352 Local Government. Town. City. County.

See also 379, Public schools; 020, Libraries.

General Questions of Municipal Administration.

.001 Growth and importance of cities.
.002 Cities and state control.
.003 City as a juristic person,—a corporation.
See also 347.1, Law of corporations.
.004 City organization, municipal elections.
.005 Municipal civil service.

Local Administration of Special Countries and Cities.

.03–.09, divided by countries like 930–999.

.042 Local Government in England.

Arrange matter relating to special cities alphabetically by name of city and subdivide the remaining works as follows:

1, County.
2, Municipal borough.
3, Parish.
4, Union. See 339, Pauperism.
5, Sanitary districts. See 614, Public health.
6, School districts. See 379, Education.
7, Highway areas. See 352.7.

.043 Local Government in Germany.

Special cities like 352.042.

1, Province. Landtag, Provincial Committee, Director.
2,
3, Circle, Circle Diet, Circle Committee, Landrath.
4, Commune.
5, Towns.
6, Township.

.044 Local Government in France.

Special cities like 352.042.

1, Department.
2, General council.
3, Departmental commission.
4, Prefect.
5, Arrondissement.
6, Commune.
7, Mayor.
8, Municipal council.

.1 **Finances. City Property and Local Taxation.**

See also 336, Finance.

.2 **Police.**

.3 **Fire Department.** See also 621.68, Fire engines; 614.84, Fires.

.4 **Public Health. Board of Health.** See also 614, Medicine.

.5 **Public Buildings and Works.**

.6 **Water and Sewerage Works.** See also 628, Sanitary engineering

.7 **Streets. Highways. Bridges. Parks.**

.8 **Licenses. Hack, Huckster, Entertainment, etc.**

.9 **Other Topics.**

353 United States and State Government.

See also 342.73, Constitutional law and history.

.01, Administrative centralization.
.02, Separation of powers.
.03, President.
.04, Departments.
.05, Cabinet.

.1 **State Department.**

.2 **Treasury** " See also 336.73, Finance of U. S.

.3 **Interior** "

.4 **Post Office** " See 383.

.5 **Judiciary** "

.6 **War** " See 355, Army. Military science.

.7 **Navy** " See 359, Navy. Naval science.

.8 **Other** "

.9 **State Government.** Divided like 974–979.

Apply same decimals for State and Foreign Governments. For departments not here specified use .8 and .9, and any of above numbers left blank; e. g. for a state having no navy, .7 is free for some local use. Judiciary dept. of D. C. 353.97535.

353.9 includes history of regiments, unless covering a particular period of national history; e. g. the "history of the N. Y. 7th Regiment in the civil war" is attracted to 973.74, but a general history of the same regiment is 353.97476.

354 Organization of Central Government. Foreign States.

See also 342, Constitutional law and history.

Divided geographically by countries like 930–999. Under each country the U. S. divisions, 1, State, 2, Treasury, etc., may be used; e. g. State department of Great Britain, 354.421. Add also the following divisions:

.42 Administration of England. Central Government.

01, Administrative centralization.
02, Separation of powers.
03, Monarch.
04, Privy council.
05, Cabinet.

.43 Administration of Germany. Central Government.

01, Administrative centralization.
02, Separation of powers.
03, Empire.
04, Bundesrath.
05, Emperor.
06, Ministry.
07, States. Monarchs.
08, Landtag. Ministers. Council of state.
09, Free cities.

.44 Administration of France. Central Government.

01, Administrative centralization.
02, Separation of powers.
03, President.
04, Ministers.
05, Council of state.

355 Army. Military Science. See 623, Military engineering.

Limited to military science, tactics, etc. For War department of U. S. or history of regiments, see 353.6 and 353.9. Divided by a o, like 350.

356 Infantry.

357 Cavalry.

358 Artillery.

359 Naval Science. See 623.8, Naval engineering.

Divided by a o, like 350.

360 Associations and Institutions.

This covers what is best known as "Charities and Corrections," and general works on this topic go in 360. Note. Under each section .9 is used as in 362.9, for grouping by location; e. g. Clubs of London are 367.9421.

361 Charitable. See also 377.7, Charity schools.

362 Hospitals, Asylums, and Allied Societies.

For Inebriate asylums, see 178.6, Temperance reformatories.

.1 **Sick and Wounded. Incurables. Eye and Ear Infirmaries. Lying-in Hospitals. Dispensaries.**

.2 **Insane.** See also 132.1, Insanity.

.3 **Idiotic.** See also 132.2, Idiocy; 371 93, Education.

.4 **Blind. Deaf. Dumb.** See also 371.91 and 371.92, Education.

.5 **Paupers.** See also 339, Pauperism; 331.6, Pauper labor.

.6 **Aged.**

.7 **Children. Orphans. Foundlings.** See also 179.2, Cruelty, ethics.

.8 **Other.**

.9 **Special Countries.**

Divided like 930–999; e. g. 362.942 is Hospitals of England.

363 Political. Tammany, Primrose League, Ku Klux, etc.

364 Reformatory. Schools. Discharged convicts. Criminal classes.

365 Prisons. Discipline. See also 331.5, Convict labor.

366 Secret Societies. .1, Masons; .2, Knights of Pythias; .3, Odd Fellows; .4, Rosicrucians.

See also 371.85, College secret societies.

367 Social Clubs.

368 Insurance. See also 334.3, Co-operative Insurance.

.1, Fire; .2, Marine; .3, Life, .31, Annuities; see also 336.35, Public annuities; 519.5, Probabilities; **.4, Accident; .5, Animal and Crop; .6, Plate Glass; .7, Boiler; .8, Credit and Bonds; Land Titles; .91, Government Control; Commissioners.** 93–99 divided geographically like 930–999; e. g. Insurance in New York (including state reports, etc.) is 368.9747.

369 Other. Cincinnati.

369 Other associations and institutions

.1 Hereditary and patriotic societies (American)

.11 General associations

.111 Regular army and navy union
.112 Society of veterans of the regular army and navy
.113 Military and naval order of the United States
.114 Medal of honor legion
.115 Military order of foreign wars of the United States
.116 Order of the old guard
(Incorporated 31 Jan. 1896; organized 15 Oct. 1896)
.117 Naval order of the United States
.118
.119

.12 Colonial societies

.121 Society of colonial wars
.122 Society of colonial dames of America
.123 Colonial dames of America
.124 Society of the Mayflower descendants
.125 Order of the founders and patriots of America
.126
.127
.128
.129

.13 Revolutionary societies

.131 Society of the Cincinnati
.132 Society of the daughters of the Cincinnati
.133 Sons of the American revolution
.134 Sons of the revolution
.135 Daughters of the American revolution
.136 Daughters of the revolution
.137
.138
.139

.14

.141 Society of the war of 1812
.142 United States daughters of 1776-1812
.143 Military society of the war of 1812
.144
.145 Aztec club of 1847
.146
.147
.148
.149

.15 Civil war societies, Union

.151 G. A. R. (Grand army of the republic)
.152 Military order of the Loyal legion
.153 Society of loyal volunteers
.154 Union veterans union
.155 Union prisoners of war association
.156
.157 National association of naval veterans
.158
.159

.162 Woman's veteran relief union
.163
.164
.165 Society of the sons of veterans, U. S. army
.166
.167
.168
.169
.17 Civil war associations, Confederate
.171 Confederate survivors association
.172 Confederate veterans association

370 Education.

.1, Philosophy, Theory; .2, ; .3, Dictionaries, Cyclopædias; .4, Essays Addresses; .5, Periodicals (for College Papers, see 378); .6, Societies, Associations; .7, Education, Teachers' Institutes, Normal Schools; .8, Polygraphy; .9, History divided by countries, like 930–999.

371 Teachers, Methods, and Discipline.

.1 Teachers.

.11 Qualifications.
.12 Training.
.13 Examination. Certificates.
.14 Appointment. Tenure.
.15 Permanent Profession vs. Stepping-stone Theory.
.16 Salary and Promotion.
.17 Pensions for Teachers.
.18 Women as Teachers.
.19

.2 School Organization.

.21 Admission. Enrollment. Matriculation.
.22 Tuition Fees.
.23 Terms. Vacations. Holidays. See also 613.76 and 613.77, Hygiene
.24 Hours. Recess.
.25 Classes. Grades.
.26 Marking System.
.27 Examinations. Oral, Written. Cramming. See also 428.9, Language
.28 Promotions.
.29 Graduation. Diplomas.

.3 Methods of Instruction.

.31 Rote or Concert Teaching.
.32 Text Books. Recitations.
.33 Lectures.
.34 Developing or Inductive Method.
.35 Art of Questioning.
.36 Topical Method.
.37 Seminary Method.
.38 Laboratory Work.
.39 Other Methods. Correspondence.

.4 Systems of Education.

.41 Bell and Lancaster, or Monitorial.
.42 Fellenberg's or Manual Labor.
.43 Military Organization.
.44 Pestalozzian.
.45 Jacotot's.
.46 Fröbel's. See 372.2, Kindergarten.
.47 "Quincy System."

.5 Government. Discipline.

.51 Rules.
.52 Attendance. Truancy. Tardiness.
.53 Rewards. Prizes.
.54 Punishment.
.55 Corporal Punishment.
.56 Confinement. Tasks.
.57 Monitors.
.58 Moral Government. Alcott.
.59 Student Self-government.

371.6 **School Furniture and Apparatus.**

.61 Furniture.

.62 Lavatories, etc.

.63 Globes, Maps, etc. 912.

.64 Libraries. See 021.3. 027.8.

.65 Museums.

.66 Apparatus.

.67 Laboratories. 542.1.

.68 Observatories. 522.1

.7 **School Hygiene.** 613.

.71 Health of Students. Over-study.

.72 Care of Eyes. Effect of Study.

.73 Care of Body. Gymnastics. Calisthenics. See also 613.71, Hygiene.

.74 Recreations. Games, etc. See also 613.74, Play; 796, Out-door sports.

.75 Championship Games. Boat-races.
See also 175.7, Ethics; 613.73, Hygiene; 796, Out-door sports.

.79 Other Special Topics.

.8 **Student Life and Customs.**
See 784.6, College Songs; 378.29, College Costumes.

.81 Student Honor. Cribbing. Cheating. Keys. "Ponies."

.82 Fagging and Hazing.

.83 Student Organizations.

.84 Literary Societies.

.85 Secret Societies. See also 366, Secret societies. Chapters in special college go here with reference from the college.

.86 Society Houses. Halls. Temples, etc.

.87 Dormitories.

.88 Commons.

.89 Customs. Celebrations. Triumphs. Burnings, etc.

.9 **Education of Special Classes.**

.91 Blind. See also Asylums, 362.4; 655.

.92 Deaf and Dumb. See also Asylums, 362.4.

.93 Feeble-minded. See also 362.3, 132.2, 920.8.

.94 Freedmen. Negro.

.95 Indians.

.96 Orientals.

.97 Criminals. Reform Schools. See also 364, Reformatories.

.98 Special Nationalities. e. g. Germans in U. S.

.99 Co-education of Races.

372 Elementary Education. Primary Schools.

.1 **Special Methods of Government.**

.2 **Kindergarten.**

.3 **Observing Powers. Object Teaching. Science.**

.4 **Reading. Alphabet. Phonics and Word Methods.**
See also 428.6, Elementary readers.

.5 **Elementary Writing and Drawing.** See also 741.

.6 **Elementary Grammar. Language Lessons.** See also 428.2.

.7 **Elementary Arithmetic.** See also 511.

.8 **Elementary Geography.** See also 910.7.
Some may prefer to put these Elementary Text Books with their subjects, but a Primer of Geography is more useful to the Student of Elementary Schools and Methods than to one interested in Description, Travels, and Geography. Text books, except primary, go with the subject.

.9 **Special Countries and Schools. History, Reports, etc.**
Subdivided like 940–999; e. g. 372.942. English elementary schools.

373 Intermediate. Academic. Preparatory.

The discussions of theories, methods, etc., are classed regardless of the public support; but schools classed in 372.9, 373.4–9, 376.9, 377.3–7, and 378.4–9 are all private or endowed, except parts of Primary, schools for women, and colleges which, even supported by public funds, are preferably classed in 372.9, 376, and 378. All other "public" schools, i. e. paid for from the public treasury, are groupt under 379.4–9. Besides schools, such topics as "American students in Europe" go naturally in 373.4 or, if the topic be "European universities," in 378.4. Peabody & Slater funds go in 373.75.

.1 **Home Education. Tutor. Governess.**

.2 **Day Schools.**

.3 **Boarding Schools.**

.4–9 **Special Countries and Schools. History, Reports, etc.**
Subdivided like 940–999; 373.42, Higher English Schools.

374 Self-education and Culture.

.1 **Private Reading. Conversation.** See 028.

.2 **Reading Circles. Book and Periodical Clubs.**

.3 **Lyceums. Literary Clubs.**

.4 **Debating Societies.**

.5 **Popular Lectures.**

.6 **Popular Summer Schools.**
See also 407, 507, for Schools of Science, etc., for specialists, which are classed with their subject not with these popular gatherings.

.7 **Chautauqua Courses.**

.8 **Societies for Home Study, Correspondence Colleges.**

.9 **Institutions. e. g. Cooper Union.**

375 Curriculum.

.01, Order of Studies; .02, Single Course; .03, Parallel Courses; .04, Optional Studies; .1–.9, Special Studies, in the order and subdivided like 100–999. e. g. 375.5, Place of Science in Curriculum; 375.82, Place of English Literature; use 375.84 also for General Questions on Modern Languages, and 375.88 for Classics.

376 Education of Women. 396.4.

.1 **Physical Capacity of Women.**

.2 **Mental Capacity of Women.** See 136.1.

.3 **Domestic Education.**

.4 **Fashionable Education.**

.5 **Conventual Education.**

.6 **Collegiate Education.**

.7 **Co-education.**

.8 **Colleges for Women.** Degree conferring colleges go here. All other schools for women go in 376.9.

.9 **Special Countries and Schools. History. Reports, etc.**
Subdivided like 940–999; 376.943, Education of women in Germany.

377 Religious, Ethical, and Secular Education.

.1 **Bible in public schools.**

.2 **Ethical education.** See also 170.7, Ethics.

.3 **Monastic schools.** See also 271, Monastic orders.

.4 **Diocesan schools.**

.5 **Parochial schools.** See 257.

.6 **Missionary schools.** See 266.

.7 **Charity schools.** See also 361, Charitable institutions.

.8 **Church and education.** See also 261.5, Church.

Subdivided like 280; e. g. 377.82, Relation of Roman Catholic church to education.

.9 **Non-Christian religions and education.**

Subdivided like 290; e. g. 377.97, Relation of Mohammedanism to education.

378 Colleges and Universities. With power of conferring degrees.

.1 **University Education.**

.13 University extension.

.2 **Academic Degrees and Costume.** See 614.21, Medical degrees.

.21 Degree-conferring body. College, University, or State.

.22 Graded degrees. Cum laude, etc.

.23 Degrees in course.

.24 Degrees on examination.

.25 Honorary degrees.

.26 Degrees by purchase or forgery.

.27

.28

.29 Academic gowns and hoods.

.3 **Fellowships. Endowment of research.**

.4-9 **Special countries and colleges. History, reports, etc.**

For Women's colleges, see 376.8.

Subdivided like 940–999. e. g. 378.42, English universities; 378.741, Maine colleges.

The various colleges of any section may be given each a number or be arranged alphabetically. Under each college arrange publications by the following table, placing these letters *after* the letter (or letter and figure) used to designate the college; e. g. a history of Harvard college would be marked 378.744 — HE, and a second history would be book numbered HE1. The practical convenience of this plan outweighs the objection that it introduces classification into the book numbers.

TABLE FOR SCHOOL AND COLLEGE PUBLICATIONS.

A	Charter and Statutes.
B	Trustees. Regents. Resolutions, reports, etc.
C	Administration. President, Chancellor. Reports, etc.
D	Finances. Treasurer's reports.
E	History. Foundation, growth, etc.
F	Biography. Necrology.
G	General Catalogs. Triennials, etc.
H	Annual Catalogs. Attendance, registers, etc.
I	Handbooks. Circulars of information.
J	Bulletins. Official periodicals.
K	Addresses. Inaugurals. Baccalaureates. Commencements, etc.
L	Programs. Tickets. Memorabilia.
M	Faculty (as a body). Publications. Regulations. Certificates for admission, etc.
N	Lectures. Class manuals. Examination questions.
O	Student theses. Orations, essays, etc.
P	Student catalogs. Society annuals, etc.
Q	Student periodicals.
R	Student societies, including periodicals.
S	Student miscellany. Songs. Class day, etc.
T	Alumni. Societies, committees, etc.
U	Classes. Histories, records, etc.
V	Pictures. Class albums.
W	Buildings and grounds. Descriptions, maps, etc.
Z	Schools. Divinity, law, medical, etc.

379 Public schools. State education.

.1 Public school system.

.11 School funds.

.12 National aid to education. Land grants. See also 336.24, Finance.

.13 Local Taxation. See also 336.28, Taxation.

.14 School laws. School age.

.15 School supervision; National, state, and local. Duties of parents.

.16 National and State Universities.
Only discussion here; for special colleges, see 378.4-9.

.17 Secondary schools. High schools. Academies. Grammar schools.

.18 Primary schools.

.19 Evening schools.

.2 Illiteracy.

.21 Illiteracy and Crime.

.22 Illiteracy and Pauperism. See also 339, Pauperism.

.23 Compulsory education.

.24

.3 Public vs. private and endowed schools.

.4-9 Special countries, sections, cities or schools.

Subdivided like 940-999. e. g. 379.73, Reports of U. S. Commissioner of Education; 379.74, Education in Massachusetts; 379.7471, in New York City.

380 Commerce, Communication.

The technical side of these questions goes mostly in 650, Useful Arts. Here belong discussions of social and political relations; e. g. government control of railroads, telegraphs, etc.

381 Domestic Trade.

382 Foreign Trade. Consular reports.

383 Post Office. See also 353.4, U. S. administration.

384 Telegraph. Cable. Telephone. See 654.

385 Railroad and Express. See 656, Railroading.

386 Canal and Highway Transportation. "

387 River and Ocean Transportation. "

388 City Transit. See 625.

389 Weights and Measures. Metrology. See 658.

390 Customs. Costumes. Popular Life.

These heads are for discussions by topic. Customs, etc., of any special country go in 913–919. Books on a special topic in a special country go here, as the grouping by topics is the more important; e. g. Marriage in Japan is 392.5, but Japanese Customs, 915.2. For Customs of Primitive Man, see 571.

391 Costume and Care of Person. See 646, Clothing; 613.4, Hygiene.

.1 Costumes of Men.
.2 Women.
.3 Children.
.4 Extremities. Hats, Gloves, Sandals, Shoes, Stockings, etc.
.5 Hair Dressing, Barbers.
.6 Care of Person, Bathing, Toilet.
.7 Ornaments and Jewelry.
.8

392 Birth, Home, and Sex Customs.

.1 Birth Customs, Christening, Circumcision.
.2 Sacrifice and Exposure. See 173.4, Ethics.
.3 Family and Home Relations.
.4 Betrothal.
.5 Marriage.
.6 Sex Relations, Concubinage.
.7

393 Treatment of the Dead. See 614.6, Public Health.

.1 Earth Burial. See 719, Cemeteries.
.2 Cremation.
.3 Embalming, Mummies.
.4 Exposure.
.9 Special Funeral Customs. Wake, Suttee.

394 Public and Social Customs.

.1 Eating, Banquets.
.2 Shows and Diversions.
.3 Games, Dances, etc.
.4 Ceremonies.
.5 Processions.
.6 Fairs.
.7 Chivalry, Tournaments.
.8 Duelling, Suicide.
See 179.7, Ethics; 340.3, Law, Trial by Ordeal.

395 Etiquet.

396 Woman's Position and Treatment.

For Costumes, see 391.2; Biography, 920 7.

If a special library about women is wished, 396 is the best place for it. Suffrage, education, and employment can then be put here, with references from 324.3, 376, 331.4, etc., but it would be unwise to bring everything about women here, e. g. to remove 618, Diseases of Women, from the rest of medicine. Books on woman in general go in 396.

.1 **Emancipation.**

.2 **Legal Status, Property, Rights, etc.**

.3 **Political Status.** See 324.3, Suffrage; 329.83, Woman Suffrage Party.

.4 **Education.** See also 376, Education of Women.

.5 **Employment.** See 331.4, Labor of Women; 371.18, Teachers.

Divided like General Classification; e. g. Woman as scientist, 396.55; woman as painter, 396.575; woman as author, 396.58, etc.

.6 **Woman in Home.**

.7 **Delineation of Woman in Art.**

.8 **Delineation of Woman in Literature.**

.9 **Woman in History, Politics, War. Amazons.**

397 Gipsies. Nomads. Outcast Races.

People without nationalities who do not coalesce with the ruling people among whom they live. This includes Gipsy language, which has no place in the linguistic groups of 400, as the Gipsy people have no place in the geographical divisions of history.

398 Folk-lore. Proverbs, etc. See also 291-3, Mythology.

This section is for material needed in studying Folk-lore. Mere Stories for Children, unless having a value to students of Folk-lore, go in 823, or in J, if there be a Juvenile collection.

.1 **Primitive Traditions.**

.2 **Legends, tales, traditions.**

.3 **Folk-lore, traditional beliefs and customs, popular superstitions.**

.4 **Fairies, Elves etc.**

.5 **Chapbooks.**

.6 **Riddles.**

.7 **Dream Books.**

.8 **Song Books.** Including only popular collections, hardly ranking with Poetry or Music, but useful in the study of Folk-lore, etc.

.9 **Proverbs.**

399 Customs of War.

Weapons. War Dances. Treatment of Captives. Scalping. Mutilation. Burning. Cannibalism.

Philology.

400 Philology in General.

In Philology the general works put under 400–419 deal almost entirely with the Indo-European languages. They are put here because they cover most of the divisions of this class, and in practice are most convenient here. Under 439, 479, and 489 are placed books limited to the Teutonic, Romance, or Hellenic groups, and under 491 are placed only such general works as are specifically limited to the Indo-European group.

401 Philosophy, Origin of Language.

402 Compends, Outlines.

403 Dictionaries, Cyclopedias.

404 Essays, Lectures, Addresses.

405 Periodicals.

406 Societies, Transactions, etc.

407 Education, Teaching Languages.

408 Polygraphy, Collections.

.9 **Universal Language.** .91 **Volapük.**

409 History of Language.

410 Comparative.

410–419 includes *comparative* works in *general* and also those on the Indo-European group in general, but general *and comparative* works on Teutonic group are 439; on Romance group 479; on Hellenic group 489. Everything about an individual language is put with that language.

411 Orthography, Orthoepy, Alphabets.

412 Etymology, Derivation.

413 Dictionaries, Lexicography.

414 Phonology. Visible Speech.

415 Grammar, Morphology, Syntax.

416 Prosody.

417 Inscriptions. Palæography. See 421.7, 471.7, 481.7, etc.
Rare early mss. are put in 091.

418 Texts.

419 Hieroglyphics. See 493.1.

.1 **Sign Language.** For deaf mute alphabets, see 371.92.

420 English Philology.

.1, Philosophy; .2, Compends; .4, Essays; .5, Periodicals; .6, Societies; .9, Study and Teaching; .8, Collective Works; .9, History of the Language.

421 Orthography.

See also this head treated in general grammars placed under 425.

.1 Alphabet. For Deaf Mute Alphabets, see 371.92.
.2 Vowels. Diphthongs. Aspirates.
.3 Consonants.
.4 Phonetic Spelling. Spelling Reform.
.5 Orthoepy.
.6 Accent.
.7 Palæography. Inscriptions.
.8 Abbreviations. For Stenographic and other uncommon contractions and abbreviations, see 653, Shorthand.
.9 Punctuation.

422 Etymology. Derivation.

422 is limited to Derivation. For Inflection, also called Etymology, see 425.2.

.1 Origin and Laws of Language.
.2 Prefixes. Suffixes.
.3 Reduplication.
.4 Foreign Elements.
.5 Noun Forms. Case, Number, Diminutives.
.6 Adjectival Forms. Degrees of Comparison.
.7 Pronominal Forms. Personal, Possessive, Relative, etc.
.8 Verbal Forms. Moods, Tense, Voice, etc.
.9 Particles. Adverbs, Prepositions, etc.

423 Dictionaries. Idioms.

.1, Idioms; .2, English; .3, German, etc. Put a dictionary of two languages with the less known language. Under 423 put only English-English dictionaries. Put an English-French dictionary with French, 443.2; a French-Latin dictionary with Latin, 473.4. If in several languages, put with 413, or with least known. Put French-French dictionaries 443, not 443.4, so the standard home dictionaries shall come first in each language. This plan brings together under each of the less known, all the dictionaries for translating either into or from that language. Some prefer to put each dictionary under the first language; i.e. that by which it is alphabeted. This gives under *each* language, regardless of its familiarity, *all* dictionaries for translating *from* it, but none for translating *into* it. These must be sought under the language from which the translation is to be made. For a cosmopolitan library this plan is simplest and best; but in an English library, the first plan, with only English dictionaries in 423, and both *in* and *out* dictionaries together under little known tongues is more convenient. References in either case show what may be found in the other place.

424 Synonyms. Homonyms.

425 Grammar.

425 includes General Works, covering also Orthography and Prosody.

.1 **Morphology. Inflection.** Divided, .5 Nouns, etc. See 422.

.2 **Syntax.**

.3 **Arrangement of Words and Clauses.**

.4 **Particular Sentences; Conditional, Hypothetical, etc.**

.5 **Nouns.**

.6 **Adjectives. Articles.**

.7 **Pronouns.**

.8 **Verbs.**

.9 **Particles.**

426 Prosody.

See also the head Prosody, in General Grammars 425.

.1 **Quantity and Accent.**

.2 **Versification.**

.3 **Feet.**

.4 **Figures of Prosody.**

5 **Meters.**

.6 **Rhymes.**

.7 **Strophe and Antistrophe.**

8 **Textbooks for Writing Verse.**

.9

427 Dialects. Early Forms of Language. Slang.

Subdivided by geographical divisions like 942. The Yorkshire dialect is 427.74; Gloucestershire dialect, 427.41. The dialects of other languages take the geographical subdivisions of their countries. Dialects not provided for in these heads are placed with the last, e. g. American and Scotch with 427.9. The division by time is made with a fifth figure after 0; the earliest form of the language is marked .01; .09 is used for modern slang, e. g. 427.01, Old English.

428 School Books. Texts for Learning the Language.

Including only books for *learning* the language, with grammatical or philological notes, etc. For other works see the literature of the language, 820.

.1 **Spelling Books.**

.2 **First Lessons. Elementary Composition.** For Rhetoric see 808.
Including in other languages books like Fasquelle, Ollendorff, Latin Prose, etc.
See also 372.6, Elementary Grammars.

.3 **Errors of Speech. Vulgarisms. Use of Words.**
See 427.09, Slang; 424, Synonyms.

.6 **Elementary Readers.** See also 372.4, Education.

.7 **Selections.**

.8 **Texts of Individual Authors.**

.9 **Examination Papers.**

429 Anglo-Saxon.

The above subdivisions of English are used for all other languages and for 410, Comparative Philology.

All Languages are subdivided like 420 English.

430 German.

437.01, Old High German; 437.02, Middle High German.

439 Minor Teutonic.

Including general works on Teutonic group.

- .1 Low German.
- .2 Frisian. Old Saxon.
- .3 Dutch. Flemish.
- .4 Platt Deutsch.
- .5 Scandinavian.
- .6 Old Norse. Icelandic. Faroese.
- .7 Swedish.
- .8 Danish. Norwegian.
- .9 Gothic.

440 French.

449 Provençal

Old French, as the earliest form of the language, is 447.01

450 Italian.

459 Wallachian.

- .9 Rumansh.

460 Spanish.

469 Portuguese.

470 Latin.

479 Minor Italic. Mediæval Latin.

Including general works on Romance group.

480 Greek.

Divide 487, Greek Dialects, like 930; e. g. 487.2, Alexandrian Greek; 487.3, New Testament Greek; 487.81, Macedonian; 487.923, Ionic, etc.

489 Minor Hellenic. Modern Greek.

Including general works on Hellenic group.

Works on Latin and Greek together, unless very clearly most useful in the Latin, go with the Greek, which here as elsewhere is made to include general works on the ancient classics.

490 Minor Languages.

Each language subdivided if wished like 420 English.

491 Minor Indo-European.

(Beside Teutonic, 420-439, Italic, 440-479, and Hellenic, 480-489.) This head, 491, includes general works on the Indo-European tongues, but general works on the Teutonic languages go in 439, on the Romance group in 479, on the Hellenic group in 489, while most of the material placed under 400-419 is really Indo-European; but see also 410.

.1 **Indic.**

.2 **Sanskrit. Prakrit.**

.3 **Pali.**

.4 **Modern East Indian Languages.**

Excluding Dravidian, which is 494.

.41 Sindhi.
.42 Panjabi.
.43 Hindustani. Hindi.
.44 Bengali.
.45 Uriya. Orissa.
.46 Marathi.
.47 Gujerati.
.48 Singhalese.
.49

.5 **Iranic.**

.51 Old Persian.
.52 Zend. (Avestan.) Old Bactrian.
.53 Pehlevi. (Huzwaresh.)
.54 Armenian.
.55 Modern Persian.
.56 Ossetic.
.57 Kurdish.
.58 Afghani.
.59

6 **Keltic.**

.61 Gadhelic Group.
.62 Irish.
.63 Gaelic or Scotch.
.64 Manx.
.65 Cymric Group.
.66 Welsh or Cymric.
.67 Cornish.
.68 Armorican or Bas Breton.
.69 Basque.

.7 **Russian.**

.79 Ruthenian.

491.8 **Other Slavonic.**

South East Slavonic Group.

.81 Bulgarian. (Church Slavonic.)
.82 Servian.
.83 Kroatian.
.84 Slovenian.

West Slavonic Group.

.85 Polish.
.86 Bohemian.
.87 Moravian. Slovakian.
.88 Sorbian.
.89 Polabian.

.9 **Lettic.**

.91 Old Prussian.
.92 Lithuanian.
.93 Lettish. (Livonian.)

492 Semitic.

Northern Group.

.1 **Aramaic.**

.19 Babylon and Nineveh Cuneiform.

.2 **Chaldee.**

.3 **Syriac.** (Peshito.)

Central Group.

.4 **Hebrew.**

.5 **Samaritan.**

.6 **Phenician.** (Carthaginian.)

Southern Group.

.7 **Arabic.**

.8 **Ethiopic.** (Amharic.)

.9 **Himyaritic.**

493 Hamitic.

.1 **Old Egyptian.** See 419 Hieroglyphics.

.2 **Coptic.**

494 Scythian. Ural-Altaic. Turanian.

Dravidian. Tamil. Finnish. Turkish.

495 Eastern Asiatic. Chinese.

496 African.

Excluding 493 Hamitic, 492.8 Ethiopic, etc., included in families above.

497 North American.

498 South American.

499 Malay-Polynesian and other.

The Gypsy language is not assigned to any group but is placed for convenience with 39-

Natural Science.

500 Science in General.

501-509 all have *Science in General* as their subject, but it is treated in these various *forms*. A periodical on *Chemistry* goes with 540.5, not 505, which is only for periodicals on Science in General. A Zero in any class number in any part of the classification shows the subject to be general, not specific.

501 Philosophy, Theories, Utility, etc.

502 Compends, Outlines, Ancient and Mediæval Science.

503 Dictionaries, Cyclopedias, etc.

504 Essays, Lectures, Addresses.

505 Periodicals, Scientific Magazines.

506 Societies, Transactions, etc.

507 Education, Methods of Teaching and Studying, etc. Museums. See also 370.

508 Polygraphy, Collected Works, Extracts, etc.

.1, Extracts; .2, ; .3, General scientific travels; .4—.9, Travels and surveys (if general) divided geographically like 940–999.

509 History of Science.

510 Mathematics.

Works on Mathematics in General, not limited to any one or two sections, are grouped by form of treatment like Science in General above; *i. e.*, into Mathematical.

510.1, Philosophy; .2, Collections, Compends; .3, Dictionaries; .4, Essays, Papers, Tracts, Letters; .5, Periodicals; .6, Societies; .7, Education; .8, Logarithmic and other Tables, Instruments; .9, History.

511 Arithmetic. See 372.7, Teaching arithmetic.

.1 Systems of Arithmetic. See also 512.81.

.2 Notation and Numeration. Fundamental Rules. Abacus.

.3 Prime Numbers.

.4 Fractions.

.5 Analysis. Permutation and Combination.

.6 Proportion and Progression. .61, Magic Squares.

.7 Involution and Evolution.

.8 Mercantile Rules. Interest. Alligation. Mensuration. Gauging. See 658, Business manuals.

.9 Problems and Tables.

512 Algebra.

.1 **Systems of Algebra.**

.2 **Numerical Equations. Imaginary Expressions.**

.21 Equations, 1st to 4th degrees.
.22 Higher Numerical Equations.
.23 Indeterminate Equations. Diophantine Analysis.
.24 Imaginary Expressions.

.3 **Algebraical Equations. Maxima and Minima.**

.4 **Series. Fractions. Binomial Theorem. Taylor's Theorem.**

.5 **Combinatory Analysis.**

.6 **Proportion and Progression.**

.7 **Involution and Evolution.**

.8 **Higher Algebra.**

.81 Theory of Numbers. See 511.1, Systems of Arithmetic.
.82 Theory of Equations. Complex Variable. See also 517.8.
.83 Determinants.
.84 Symmetric Functions.
.85 Elimination. Eliminants and Discriminants.
.86 Transformations. Substitutions.
.87 Quantics.
88 Invariants. Covariants. Contravariants.
.89

.9 **Problems and Tables.**

513 Geometry.

Plane and Solid Geometry bound together is put 513. Descriptive Geometry is 515. See also Mathematical Drawing, 744.

.1 **Plane Geometry.**

.11 Right Lines.
.12 Intersecting Lines.
.13 Parallel Lines.
.14 Triangles.
.15 Quadrilaterals.
.16 Other Polygons.
.17 Similarity.
.18 Areas.
.19 Maxima and Minima

.2 **Curves.**

.21 Circles.
.22 Conic Sections.
.23 Ellipse.
.24 Hyperbola.
.25 Parabola.
.26 Higher Plane Curves.

513.3 **Volumetric or Solid Geometry.**

.31 Lines and Planes.
.32 Intersecting Planes.
.33 Parallel Planes.
.34 Polyedrons.
.35 Pyramids.
.36 Prisms.
.37 Regular.

.4 **With Curved Surfaces.**

.41 Sphere.
.42 Cone.
.43 Cylinder.

.5 **Modern Geometry.**

.51 Points. Lines. Planes. Duality.
.52 Transversals.
.53 Cones. Conics. Involution.
.54 Radical Axes and Centres of Similitude.
.55 Poles and Polars. Reciprocal Polars.
.56 Harmonic and Anharmonic Properties.
.57 Correspondence. Correlation of Figures.
.58 Quadric Surfaces. Sphero-conics. Curves of Double Curvature.
.59 Surfaces of Higher Order. Cubics.

.6

.7

.8 **Absolute or Non-Euclidean Geometry.**

.9 **Problems.**

514 Trigonometry.

.1 **Trigonometric Functions. General Formulæ.** See 510.7.

.2 **Trigonometric Series.**

.3 **Exponential Formulæ.**

.4 **Solution of Trigonometric Equations.**

.5 **Plane Trigonometry. Solution of Plane Triangles. Analytical.**

.6 **Spherical Trigonometry. General Formulæ.**

.7 **Solution of Spherical Triangles.**

.8 **Differences of Triangles, Plane and Spherical.**

.9 **Problems.**

515 Descriptive Geometry and Projections.

See also 744, Mathematical drawing.

.1 Orthogonal Projection on Two Planes.

.11 Straight Lines. Planes.
.12 Single Curved Lines.
.13 Double Curved Lines.
.14 Single Curved Surfaces.
.15 Double Curved Surfaces.
.16 Surfaces of Revolution.
.17 Warped Surfaces.
.18 Intersections of Surfaces.

.2 Isometric and Analogous Projections.

.3 Oblique Projection.

.4 Conical Projection.

.5 Spherical Projection. See 526.8, Map projection.

.51 Orthographic.
.52 Globular.
.53 Stereographic.
.54 Polar.
.55 Gnomonic.
.56 Conical.
.57 Cylindric.

.6 Perspective. See also 742, Drawing.

.61 Plane. Parallel. Oblique. Angular.
See also Scene Painting.
.62 Cylindrical.
See also Panorama Painting.
.63 Shadows; Natural and Artificial Light.
.64 Reflections.
.65 Circles, Cylinders and Spheres.
.66 Distortions and Corrections.
.67 Human Figure.
.68 New Methods. Special devices.

.7 Shades and Shadows.

.8 Stereotomy.

.81 Stone Cutting. See also 693.12, Masonry; 730, Sculpture.
.82 Carpentry. See also 694, Building.
.83 Stair Building. See also 694.8, Building; 729.39, Architectural design.

CARTESIAN.

.1 **Plane Loci.**

.11 Right Lines.

.12

.13

.14 Transformation of Co-ordinates.

.2 **Curves.**

.21

.22 Conic Sections.

.23 Ellipse.

.24 Hyperbola.

.25 Parabola.

.26 Higher Plane Curves.

.3 **Loci in Space.**

.31 Right Lines.

.32 Planes.

.33

.34 Transformation of Co-ordinates.

.4 **Curved Surfaces.**

.41

.42 Conicoids or Quadric Surfaces.

.43 Ellipsoid.

.44 Hyperboloid.

.45 Paraboloid.

.46 Surfaces of Higher Order.

.5 **Modern Analytical Geometry.**

.51 Systems of Co-ordinates.

.52 Abridged Notation.

.53 Conics.

.54 Higher Plane Curves.

.55 Poles and Polars. Reciprocal Polars.

.56 Harmonic and Anharmonic Properties.

.57 Method of Projection.

.58 Quadric Surfaces. Sphero-conics. Curves of Double Curvatures.

.59 Surfaces of Higher Order. Cubics.

.6

.7

.8 **Quaternions. Calculus of Direction and Position**

.9 **Problems.**

517 Calculus.

.1 **Infinitesimal. Method of Exhaustions.**
Differential and Integral Calculus, *bound together*, is put here.

.2 **Differential.**

.21 Series.
.22 Indeterminate Forms.
.23 Change of the Independent Variable.
.24 Theory of Plane Curves. Curve Tracing.
.25
.26 Theory of Curved Surfaces.
.27 Maxima and Minima.
.28
.29 Problems.

.3 **Integral.**

.31 Formulæ of Reduction and Integration.
.32 Definite Integrals. Eulerian Integrals.
.33 Rectification. Quadrature. Cubature.
.34 Multiple Integrals.
.35 Laplace's Functions. Bessel's and Allied Functions.
.36 Elliptic and Hyperelliptic Functions. Abelian Functions.
.37
.38 Differential and Partial Differential Equations.
.39 Problems and Tables.

.4 **Of Variations.**

.5 **Of Functions.**

.6 **Of Finite Differences.**

.7 **Of Operations**

.8 **Of Imaginaries. Complex Variables.** See also 512.82.

.9 **Problems.**

519 Probabilities.

.1 **General Principles. Direct and Inverse Probabilities.**

.2 **Mathematical and Moral Expectation.**

.3 **Testimony. Decisions of Juries and Tribunals.**

.4 **Probability of Future Events deduced from Experience.**

.5 **Life Contingencies. Annuities. Life Insurance.** See 368.3

.6 **Errors of Observation. Mean or Average Values.**

.7

.8 **Method of Least Squares.**

.9 **Problems.**

520 Astronomy.

520.1, Astrology, see 133.5; 520.2, Compends; 520.3, Dictionaries; 520.4, Essays; 520.5, Periodicals; 520.6, Societies; 520.7, Study and Teaching of Astronomy; 520.8, Collections, etc.; 520.9, History of Astronomy. See Note under Natural Science in General, 500-509.

521 Theoretical Astronomy.

Mathematical investigation of celestial motions, specially of the Solar System. The motions of individual bodies are classed under separate heads in 523.

.1 Celestial Dynamics.

.11 General Laws of Equilibrium and Motion. See also 531.2.
.12 Law of Universal Gravitation and Motion Relative to the Sun. See also 531.51.
.13 Problem of Three Bodies.
.14 Figures of Heavenly Bodies.
.15 Rotation of Heavenly Bodies.

.2 Geocentric and Heliocentric Place.

.21 Plane of Orbit in Space.
.22 Position of Orbit in its Plane.
.23 Position of Body in its Orbit.
.24 Position of Body in Space.
.25 Heliocentric Longitude and Latitude.
.26 Geocentric Longitude and Latitude.
.27 Variations of Right Ascension and Declination.
.28 Variations of Longitude and Latitude.
.29

.3 Orbits.

.31 Definitions of Orbits.
.32 Determination from Three Observations.
.33 Determination from Four Observations.
.34 Variation of Elements of Orbit.
.35 Correction of Approximate Elements of Orbit.
.36 Application of Method of Least Squares.
.37 Kepler's Problem.
.38 Equation of Center and Radius Vector.
.39

.4 Perturbations.

.41 Mutual Action of Planets.
.42 Action of Satellites.
.43 Non-Sphericity of Planets.
.44 Resisting Medium.

.5 Theory of Planets.

.6 Theory of Satellites.

.7 Theory of Comets.

.8 Theory of Eclipses.

.9 Precession and Nutation. See 522.95-6.

.1 Observatories.

.11 General Plan, Location
.12 Material and Mechanism of Dome, Drum, etc.
.13 Transit Buildings, Wings, etc.
.14 High Altitude Observatories.
.15 Portable.
.16
.17
.18
.19 History Reports and Serial publications of Observatories.

.2 Telescopes. See 535.83, Optics.

.21 Reflecting.
.22 Refracting.
.23 Eye Piece and Accessories.
.24 Object Glass.
.25 Mounting, Tube, etc.
.26 Equatorial Mounting.
.27 Transit Mounting.
.28 Observing Chairs, etc.
.29 Famous Telescopes.

.3 Meridional Instruments.

.31 Finding Meridian Line.
.32 Mural Circles.
.33 Meridian Circles.
.34 Transit, Placing in Position.
.35 Collimation Constant
.36 Level Constant.
.37 Azimuth Constant.
.38 Other Constants, Flexure, Index Error, etc.
.39

.4 Extra Meridional Instruments.

.41 Sextant and Quadrant, Reflecting Circle, Astrolabe
.42 Alt-azimuth.
.43 Zenith Telescope.
.44 Transit out of Meridian.
.45 Heliometer.
.46 Equatorial.
.47 Prime Vertical.
.48
.49

522.5 Auxiliary Instruments.

.51 Sidereal Clock and Chronometer.
.52 Electro-Chronograph.
.53 Micrometers.
.54 Personal Equation Machine. See 522.97.
.55 For Illumination.
.56 For Solar Observation.
.57 Artificial Horizons.
.58 Heliostat.
.59

.6 Auxiliary Observations.

.61
.62 Photometry. See 535.2, Optics.
.63 Photography. See 535.85, Optics; 770, Photography.
.64
.65 Polarization. See 535.5, Optics.
.66
.67 Spectroscopy. See 535.84, "
.68
.69

.7 Spherical Astronomy. See also 524.6

.71 Celestial Sphere. Spherical Co-ordinates.
.72 Rectangular Co-ordinates.
.73 Transformation of Co-ordinates.
.74 Differential Variations of Co-ordinates.
.75 Interpolation.
.76 Meridian Line. Variation of Compass.
.77 Reduction of Observations to the Meridian.
.78 Use of Globes.
.79

.9 Corrections.

.91 Parallax.
.92 Refraction. See 535.3, Optics.
.93 Semi-Diameter of Celestial Bodies.
.94 Aberration.
.95 Precession. See 521.9.
.96 Nutation. " "
.97 Personal Equation. See 522.54.
.98 Instrumental Errors.
.99

523 Descriptive Astronomy.

.1 Universe.

.11 Structure of Universe.
.12 Nebular Hypothesis.
.13 Plurality of Worlds.
.14 Space and its Temperature.
.15 Resisting Medium.
.16 Cosmic Dust.
.17 Repulsive Force.

.2 Solar System.

.21 Distributive Laws of Planets.
.22
.23 Conjunctions and Oppositions.
.24 Motion of Solar System in Space.
.25 Constitution of Planetary System.
.26 Stability of Solar System. Ecliptic.
.27
.28 Orrery, Planetarium, Gyroscope, etc. See 531.34, Rotation.
.29 Zodiac.

.3 Moon.

.31 Constants (Size, Mass), Distance and Parallax.
.32 Heat and Light. Phases.
.33 Orbit and Motions: Sidereal Month, Tropical. Perigee and Apogee. Sun and Earth's Attraction, Librations. See also 521.5 for Orbit.
.34 Features of Surface, Mountains, Plains, etc.
.35 Atmosphere.
.36 Physical Condition.
.37 Spectrum.
.38 Eclipses
.39 Charts, Photographs, etc.

.4 Planets.

.41 Mercury and intra-Mercurial.
.42 Venus.
.43 Mars.
.44 Asteroids.
.45 Jupiter.
.46 Saturn.
.47 Uranus.
.48 Neptune and trans-Neptunian.
.49 Charts, Photographs, etc.

.5 Meteors and Zodiacal Light.

.51 Aerolites.
.52 Fire-balls.
.53 Meteoric Showers, Radiant Points, etc.
.54 Systems of Meteors.
.55
.56 Connection of Comets and Meteors
.57 Spectrum.
.58 Hight of Atmosphere from Observation.
.59 Zodiacal Light. Aurora Borealia.

523.6 **Comets.**

.61 Appearance and Development.

.62

.63 Orbits.

.64 Remarkable Comets.

.65

.66 Physical Constitution

.67 Spectrum.

.68

.69 Charts, Photographs, etc.

.7 **Sun.**

.71 Constants, Dimensions.

.72 Heat and Light: Theories as to Source.

.73 Apparent Motion. Rotation. See 525.38, Tables.

.74 Spots, Faculæ, and Other Features of Surface.

.75 Prominences, Chromosphere. Corona.

.76 Theories of Physical Constitution.

.77 Spectrum.

.78 Eclipses.

.79 Charts, Photographs, etc.

.8 **Stars.**

.81 Stellar Parallax, Distance.

.82 Heat and Light. Photometric Observations. Magnitude. Visibility.

.83 Proper Motion, Star-drift.

.84 Variable, Double, and Multiple Stars.

.85 Clusters and Nebulæ.

.86 Physical Constitution.

.87 Spectrum.

.88

.89 Constellations, Maps, etc.

.9 **Transits and Occultations.**

.91 Transits of Mercury.

.92 Transits of Venus and Solar Parallax.

.93 Delisle's Method.

.94 Halley's Method.

.95 Photographic Method.

.96 Transits of Venus to 1874..

.97 Transit of 1882.

.98

.99 Occultations.

[524 Maps, Observations, and Tables.

Series of observatory publications may be kept together under 524, or under 522.19 with the History and Reports of the Observatory. Special maps or observations e. g. on Sun or Moon are better placed in sub-sections 9 *under these heads*, with Charts and Photographs, e. g. 523.79, thus leaving these bracketed Nos. 524 to 524.9 blank. They are printed to provide a place in case it is wished to keep *all* Maps and Observations together.

.3 **Of Moon.** See also 523.39.

.4 **Of Planets.** See also 523.49.

.5

.6 **Of Comets.** See also 523.69.

.7 **Of Sun.** See also 523.79.

.8 **Star Catalogues.** See also 523.89.]

525 Earth.

.1 Constants.

.11 Mass. Weight.
.12 Density.
.13 Dimensions, Diameter.
.14 Figure. Geomorphy. Equatorial Belt.
.15 Distance from Sun.
.16 Parallax.

.2 Heat. Light.

.3 Orbits and Motions.

.31 Period of Revolution.
.32 Obliquity of Ecliptic to Equator.
.33 Eccentricity.
.34 Perturbations.
.35 Rotation.
.36 Foucault's Pendulum.
.37 Deviation of Falling Bodies and Projectiles.
.38 Tables of the Sun. Apparent Motion. See 523.73, Sun.

.4 Geographical Co-ordinates.

.41 Finding Latitude. See also 527.1.
.42 By Meridian Altitudes.
.43 By Pole Star.
.44 By Altitude of two or more Stars.
.45 By Other Methods.
.46 Finding Longitude. See also 527.2.
.47 Terrestrial Means. Chronometers. Telegraph. Signals.
.48 Celestial Signals. Eclipses. Occultations. Transits.
.49 Lunar Methods.

.5 Seasons.

.51 Effect of Inclination of Equator to Ecliptic.
.52 Effect of Eccentricity of Earth's Orbit.
.53 Secular Changes of Seasons.
.54 Seasons on Mars and Other Planets.

.6 Tides.

.61 Mathematical Theory.
.62 Effect of Sun and Moon in Producing Tides.
.63 Distribution, Diurnal Inequality, Spring and Neap, Priming and Lagging.
.64 Establishment of a Port. Coast Form Modification.
.65 Velocity of Hight of Tide Wave.
.66 Tides on Inland Seas.
.67 Supposed Effect in Retarding Earth's Revolution.
.68 Tide Registering and Predicting Machines.
.69 Tide Tables.

.7 Twilight.

526 Geodesy.

.1 Theory and Determination of Earth's Figure.

.11 Potentials of Ellipsoids.
.12 Equilibrium of Rotating Spheroid.
.13 Law of Ellipticity.
.14 Airy's and Pratt's Theories as to Attraction of Mountains.
.15 Determination of Figure by Airy, by Bessel, and by Clarke.
.16 Ellipsoidal Figure and Position of Axes.
.17 Geoidal Figure.
.18
19.

.2 Base Measuring and Apparatus.

.21 Standards of Length and Temperature.
.22 Apparatus of Struve, Bessel, Colby, U. S. Coast Survey, U. S. Lake Survey, etc.
.23 Adjustments of Apparatus.
.24 Location of Base Line.
.25 Field Operations.
.26 Calculation of Results and Corrections.
.27 Verification.
.28
.29

.3 Field Work of Triangulation.

.31 Reconnaissance.
.32 Stations: Names, Signals, Tripods, Scaffolds and Towers, Surface and Underground Monuments.
.33 Observations, Instruments and Records.
.34 Reduction to Station's Center.
.35 Corrections for Phase of Signal and Eccentricity.
.36 Spirit Levelling.
.37 Barometric Levelling.
.38 Trigonometric Levelling.
} These are methods. See 551.53, for results, lists of hights, etc.
.39

.4 Computation of Triangulation.

.41 Spherical Excess.
.42 Legendre's Theorem.
.43 Chord Process.
.44 By Spherical Trigonometry.
.45 By Spheroidal Trigonometry. See also application of Least Squares, 522.6.

.46 L. M. Z. Formulæ and Applications.

.47 Direct Deduction by Bessel.
.48 Deduction by Puissant.
.49 Tables for Computation.

526.5 Theory of Least Squares in Adjustment of Figures, etc.

.51 Method of Independent Angles.
.52 Adjustment of a Quadrilateral.
.53 Adjustment of Triangulation Net.
.54 Method of Directions.
.55 Adjustment for Closure of a Circuit.
.56 Method of Repetitions.
.57 Adjustments of Base Measures.
.58 Adjustments of Levelling.

.6 Astronomic Determinations and their Connection with Geodetic Results.

.61 Latitude Determinations.
.62 Longitude Determinations.
.63 Azimuth Determinations.
.64 Effect of Irregularities of Earth's Surface on Latitude, Longitude and Azimuth.
.65 Effect of same on Angles of Triangle.

.7 Gravity Experiments and Results.

.71 Mathematical Theory.
.72 Pendulum Apparatus.
.73 Pendulum Operations.
.74 Corrections.
.75 Reduction of Results.

.8 Map Projections. See 515.5, Spherical projections.

.81 Perspective Projections.
.82 Orthomorphic Projections.
.83 Development Projections.
.84 Zenithal Projections.
.85 Equivalent Projections.

.9 Surveying.

.91 Instruments and Methods. See 526.2.
.92 Measurement of Distances.
.93 Measurement of Angles.
.94 Measurement of Heights.
.95 Levelling. See 526.36–38.
.96 Plotting.
.97 Computation of Areas.
.98 Topographical Drawing.
.99 For Special Purposes. Military, Naval, Railroad, Mining, etc.

527 Navigation.

.1 **Finding Latitude at Sea.** See also 525.41.
.2 **Finding Longitude at Sea.** See also 525.46.
.3 **Finding Time at Sea.** See also 529.74.
.4 **Sumner's Method.**
.5 **Great Circle Sailing.**
.6
.7
.8
.9

528 Ephemerides.

.1 **American.**
.2 **English.**
.3 **German.**
.4 **French.**
.5 **Italian.**
.6 **Spanish.**
.7 **Slavic.**
.8 **Scandinavian.**
.9 **Construction of Ephemeris.**

529 Chronology.

.1 **Sidereal and Solar Day:** Apparent and Mean Time, Equation of Time, Causes of Inequality.
.2 **Solar Year, Months.**
.3 **Calendars.** Including early and Oriental.
.4 **Calendar of Julius Cæsar.**
.5 **Calendar of Gregory.**
.6 **Ecclesiastical Calendar. Determination.**
For feasts, etc., and calendars themselves, see 264.021, 264.031, etc.
.7 **Horology.**

.71 Finding Time by Transit.
.72 Finding by Equal Altitudes.
.73 Finding by Single Altitude.
.74 Finding by Sextant. See also 527.3.
.75 Time Systems, and Standards.
.76 Distribution of Time.
.77 Cosmic Time.
.78 Instruments for Measuring: Dials, Hour-glasses, Clocks, Watches, etc.
See 522.51 for Sidereal Clocks and Chronometers.
See 681 for Clock and Watch making.
.79

530 Physics.

Like Science in General, viz.:

General works only are arranged: 530.1, Philosophy; .2, Compends; .3, Dictionaries; .4 Essays, Lectures, etc.; .5, Periodicals; .6, Societies; .7, Education, Methods of Teaching, Experiments; .8, Physical Units, Measuring Instruments; .9, History.

531 Mechanics.

.1 **Pure Motion. Kinematics.**

.2 **Statics. Graphical statics.**

.21 Force and its Measure.
.22 Composition of Forces and Motions.
.23 Moments.
.24 Parallel Forces. Centre of Gravity.

.3 **Dynamics. Kinetics.**

.31 Rectilinear Motion.
.32 Vibration.
.33 Undulation.
.34 Rotation.
.35 Centrifugal and Centripetal Force.

.4 **Work. Friction.** See 621.89, Lubrication.

.41 Unit of Work.
.42 Diagram of Work.
.43 Laws of Friction. Modulus of Machines.
.44 Sliding Friction.
.45 Rolling Friction.

.5 **Gravity.**

.51 Law of Universal Gravitation.
.52 Laws of Falling Bodies
.53 Pendulum.
.54 Mass, Density, etc.
.55 Projectiles.
.56
.57
.58 Apparatus for Illustration.

.6 **Conservation of Energy.**

.7

.8 **Machines. Transmission of Force**

.81 Lever and Balance.
.82 Wheel and Axle.
.83 Cord and Catenary.
.84 Pulley.
.85 Inclined Plane.
.86 Wedge.
.87 Screw.
.88

.9 **Tables. Problems. Questions.**

532 Liquids. Hydrostatics. Hydraulics.

.1 **Properties of Liquids. Pressure.**

.2 **Equilibrium of Liquids.**

.3 **Buoyant Effects. Floating Bodies.**

.4 **Specific Gravity. Hydrometer.**

.5 **Liquids in Motion.**

.51 Theoretical Flow.

.52 Orifices, Adjutages, Fluid Vein.

.53 Weirs, Overfalls.

.54 Pipes, Open Channels, Rivers.

.55 Bends, Valves, sudden enlargements and contractions.

.56 Efflux; variable pressure.

.57 Hydrometry. Velocity.

.58 Impulse and Resistance.

.59 Theory of Waves.

.6 **Capillary Attraction.**

.7 **Osmose. Absorption.**

.8 **Applications. Machines.** See 621.2, Water engines.

Except for libraries making Physics much more prominent than Useful Arts, all the "Applications" will be more useful under their proper heads in Useful Arts. It is better to keep all the material in one place, referring to it from the other, rather than attempt division.

.81 Hydraulic Press.

.82 Hydraulic Engine.

.83 Water Ram.

.84 Water Wheels.

.85 Water Blast.

.9 **Tables. Problems. Questions.**

533 Gases. Pneumatics.

.1 **Properties of Gases and Vapors.**

.2 **Laws of Compressibility.**

.3 **Atmosphere.**

.4 **Barometer.**

.5 **Air Pump**

.6 **Aeronautics.**

.7 **Kinetic Theory of Gases.**

.8 **Applications.** See 621.6, Blowing and Pumping engines.

Preferably go in Useful Arts, see 532.8, Note.

.82 Manometer. Pressure Gauges See 621.18, Steam generation.

.83 Condensing Pump.

.84 Force Pump.

.85 Suction Pump.

.86 Diving Bell.

.87 Forge Bellows.

.88 Pneumatic Dispatch.

.9 **Tables. Problems. Questions.**

534 Sound. Acoustics.

.1 **Theory. Undulations.**

.2 **Propagation of Sound. Velocity. Diffraction.**

.3 **Musical Sound. Tuning Forks.** See also 781.1, Theory of Music.

.4 **Analysis of Sounds. Resonators.**

.5 **Superposition of Vibrations.**

.6 **Graphical Representations.**

.7 **Physiological. Ear and Larynx.** See also 611.85, Anatomy; 612.85, Physiology; 612.78, Voice; 617.8, Surgery; 362.1 and .4, Hospitals; 152.2, Psychology.

.8 **Applications.** Preferably go with topics elsewhere. See 532.8, Note.

.81

.82

.83 Signals in Navigation. See also 654.9, Communication.

.84 Applications to Architecture.

.85 Musical Instruments. See also 780, Music.

.86 Phonograph.

.9 **Tables. Problems. Questions.**

535 Light. Optics.

.1 **Theory.**

.2 **Propagation. Velocity. Measurement of Light.**

.3 **Reflection. Refraction. Absorption.** See also 522.92, Astronomy.

.4 **Dispersion. Diffraction. Interference.**

.5 **Polarization. Polariscope. Double Refraction.**

.6 **Color.**

.7 **Physiological. Eye.** See also 611.84, Anatomy; 612.84, Physiology; 617.7, Surgery; 362.1 and .4, Hospitals; 152.1, Psychology.

.8 **Applications.** Preferably go with topics elsewhere. See 532.8, Note.

.81 Lenses.

.82 Microscopes and Magnifiers. See also 578, Microscopy.

.83 Telescopes. See also 522.2, Astronomy.

.84 Spectroscopes and Spectrum Analysis. See also 544.6, Chemistry; 522.67, Astronomy; 523.37, Moon; 523.57, Meteors, etc.

.85 Photography. See also 770.

.86 Other Applications of Lenses.

.87 Mirrors and Reflecting Instruments.

.88 Lighthouses. See also 627.9, Harbor Engineering; 656, Commerce.

.89

.9 **Tables. Problems. Questions.**

536 Heat.

.1 **Theory. Nature.**

.2 **Communication.**

.3 **Action of Bodies on Heat.**

.31 Reflection.
.32 Refraction.
.33 Radiation.
.34 Absorption.
.35 Diathermancy.

.4 **Effects. Action of Heat on Bodies.**

.41 Expansion.
.42 Liquefaction.
.43 Solidification.
.44 Vaporization and Condensation.
.45 Incandescence.
.46 Combustion. Flame.

.5 **Temperature.** See also 551.52, Meteorology; 613.18, Hygiene.

.51 Thermometry.
.52 Pyrometry.
.53 Electric Methods of Measuring.

.6 **Calorimetry.**

.7 **Thermodynamics. Mechanical Equivalent.**

.8 **Applications.** Preferably go in Useful Arts. See 532.8, Note.

.81 Steam Engines. See 621.1, Engineering.
.82 Gas Engines. See 621.43, Engineering.
.83 Heating. See 697, 621.19, 628.8, 644.
.84 Ventilating. See 697, 622.4, 628.8.

.9 **Tables. Problems. Questions.**

537 Electricity.

.1 **Theory. Nature.**

.2 **Statical.**

.21 Quantity, Potential.
.22 Conduction, Distribution
.23 Machines.
.24 Condensers.
.25 Electrometers.

.3

.4 **Atmospheric. Lightning Rods.**

.5 **Dynamical.**

.51 Theory of Coils. Constants.
.52 Induction Spark.
.53 Induction Spark in rarified gases.

537.6 **Electro Dynamics.**

.7 **Electrical Measurements.**

.8 **Applications.** See 621.3. Preferably go in Useful Arts. See 532.8, Note.

.81 Telegraph. See 654.

.82 Telephone. Microphone.

.83 Dynamos. Electric Lighting.

.84 Transmission of Power. Storage.

.85 Electro-Metallurgy.

.86 Galvanometers. Batteries. Coils.

.87 Medicine. See also 615.84.

.88 Electric Signals.

.9 **Tables. Problems. Questions.**

538 Magnetism.

For "Animal Magnetism," Mesmerism, etc., see 134.

.1 **Theory. Properties of Magnets. Lines of Force.**

.2 **Communication. Induction. Touch.**

.3 **Electro-Magnetism.**

.4 **Diamagnetism.**

.5

.6

.7 **Terrestrial Magnetism.**

.8 **Applied. Magnetic Machines.**

.9 **Tables. Problems. Questions.**

539 Molecular Physics.

.1 **Theory. Molecular Structure.** Vortex Rings.

.2 **Properties of Solids.**

.3 **Elasticity. Torsion.**

.4 **Strength of Materials.**

.5 **Permanent Displacement of Molecules.**

.51 Malleability.

.52 Ductility.

.53 Hardness.

.54 Tempering.

.6 **Intermolecular Forces.**

.7

.8

.9 **Tables. Problems. Questions.**

540 Chemistry.

.1, Theories, Alchemy, Phlogiston; .2, Compends; .3, Dictionaries, Cyclopedias; .4, Essays, Lectures, etc.; .5, Periodicals; .6, Societies; .7, Education, Methods of Teaching; .8, Collective Works; .9, History.

541 Theoretical Chemistry.

.1 Thermo Chemistry.
.2 Atoms. Molecules. Atomic Weights. Equivalence.
.3 Chemical Affinity. Combustion.
.4 Salts. Acids. Bases.
.5 Types.
.6 Compound Radicles.
.7 Allotropy. Isomerism.
.8 Solubility. Water of Crystallization.
.9 Classification. Nomenclature. Notation. Formulæ. Stoichiometry. Tables.

542 Practical and Experimental Chemistry.

.1 Laboratory.
.2 Apparatus and Manipulation.
.3 Weighing and Measuring. Specific Gravity.
.4 Heating. Baths. Distillation.
.5 Blowpiping. See 544.3, 549.1.
.6 Solution. Precipitation.
.7 Gas Manipulation. Eudiometer. See 545.7.
.8 Electric and Galvanic Manipulation. See 537.85.
.9 Other Operations.

543 Analysis.

Divided by material analyzed. See also 614.3, Adulterations.

.1 Food and Drink. See also 613.2, Hygiene; 612.39, Nutrition.
.2 Milk.
.3 Water. See also 613.3, Beverages.
.4 Drugs and Medicines.
.5 Poisons.
.6 Rock Analysis.
.7 Special Inorganic Substances. See also 614.774, Analysis of soils.
.8 Special Vegetable Substances.
.9 Special Animal Substances.

544 Qualitative Analysis.

.1 **Wet Method.**

.2 **Dry Method.** See 669.9, Assaying.

.3 **Blowpiping.** See 542.5, 549.1, Mineralogy

.4

.5 **Dialysis.**

.6 **Spectrum Analysis.** See 535.84.

.7 **Polarization.** See 535.5.

.8

.9

545 Quantitative Analysis.

.1 **Gravimetric.**

.2 **Wet Method.**

.3 **Electrolysis.** See 537.85.

.4 **Dry Method.**
For Assaying see 669.9.

.5 **Volumetric.**

.6 **Solutions.**

.7 **Gases. Eudiometry.** See 542.7.

.8 **Colorimetric.**

.9 Synthesis.

546 Inorganic Chemistry.

.1 **Non-Metallic Elements.**

.11 Hydrogen.

.12 **Halogen Group.**

.13 Chlorine.

.14 Bromine.

.15 Iodine.

.16 Fluorine.

.17 **Nitrogen Group. Nitrogen.**

.18 Phosphorus.

.19 Arsenic.

.2 **Oxygen Group.**

.21 Oxygen.

.22 Sulphur.

.23 Selenium.

.24 Tellurium.

.25 **Carbon Group.**

.26 Carbon.

.27 Boron.

.28 Silicon.

.29

546.3 Metals.

.31	**Alkali Group.**
.32	Potassium.
.33	Sodium.
.34	Lithium.
.35	Rubidium.
.36	Caesium.
.37	
.38	
.39	
.4	**Alkaline Earths.**
.41	Calcium.
.42	Strontium.
.43	Barium.
.44	**Magnesium Group.**
.45	Beryllium.
.46	Magnesium.
.47	Zinc.
.48	Cadmium.
.49	
.5	**Lead Group.**
.51	Lead.
.52	Thallium.
.55	**Silver Group**
.56	Copper.
.57	Silver.
.58	Mercury.
.59	
.6	**Cerium Group.**
.61	Yttrium.
.62	Cerium.
.63	Lanthanum.
.64	Didymium.
.65	Erbium.
.66	Aluminium.
.67	Indium.
.68	Gallium.
.69	Scandium
.7	**Iron Group.**
.71	Manganese.
.72	Iron.
.73	Cobalt.
.74	Nickel.
.75	**Chromium Group.**
.76	Chromium.
.77	Molybdenum.
.78	Tungsten
.79	Uranium.

546.8 **Tin Group.**
.81 Tin.
.82 Titanium.
.83 Zirconium.
84 Thorium.
.85 **Vanadium Group. Vanadium.**
.86 Antimony.
.87 Bismuth.
.88 Tantalum.
.89 Niobium.
.9 **Platinum Group.**
.91 Gold.
.92 Platinum.
.93 Iridium.
.94 Osmium.
.95 **Ruthenium Group.**
.96 Ruthenium.
.97 Rhodium.
.98 Palladium.
.99

547 Organic Chemistry.

.1 **Cyanogen and its Compounds.**
.2 **Hydrocarbons. Fatty Series.**
.21 Paraffins.
.22 Olefines.
.23 Acetylenes.
.24 Valylene. Dipropargyl, etc.
.25 **Aromatic Series.**
.26 Benzenes.
.27 Diphenyl Group.
.28 Naphthalene. Anthracene. Phenanthrene.
.29 Higher Series.
The seven heads 547.3 to 547.9 are sub-divided like 547.2.
.3 **Alcohols. Phenols.**
.4 **Ethers. Simple. Compound. Haloid.**
.5 **Aldehydes.**
.6 **Ketones. Quinones.**
.7 **Acids. Acid Halides. Acid Anhydrides. Sulpho-acids.**
.8 **Nitro-derivatives. Amines. Compound Ammoniums. Amids. Amic Acids. Azo-bodies. Azoxy-bodies. Hydrazo-bodies. Diazo-bodies.**
.9 **Compounds with Metals.**

548 Crystallography.

.1 Systems of Crystallization.
.2 Twin Crystals. Crystalline Aggregations.
.3 Cleavage. Isomorphism. Polymorphism.
.4 Irregularities. Internal Imperfections.
.5 Formation and Growth of Crystals.
.6 Pseudomorphs.
.7 Mathematical. Measurement of Angles.
.8 Physical.
.9 Optical.

549 Mineralogy.

.01, Philosophy, Classification; .02, Compends; .03, Dictionaries; .04, Essays, Papers, etc.; .05, Periodicals; .06, Societies; .07, Study and Teaching, Museums; .08, Collective Works; .09, History.

.1 Determinative. Blowpiping. See also 542.5; 544.3.
.2 Native Elements.
.3 Sulphides, Tellurides, Selenides, Arsenides, Antimonides, Bismuthides.
.4 Compounds of Chlorine, Bromine, Iodine, and Fluorine.
.5 Oxygen Compounds. Oxids.
.6 Silicates.
.61 Anhydrous.
.65 Hydrous.
.7 Other Ternary Oxygen Compounds.
.71 Tantalates. Columbates.
.72 Phosphates. Arsenates. Vanadates. Antimonates. Nitrates.
.73 Borates.
.74 Tungstates. Molybdates. Chromates.
.75 Anhydrous Sulphates.
.76 Hydrous Sulphates.
.77 Tellurates.
.78 Carbonates.
.79 Oxalates.
.8 Hydrocarbons.
.9 Geographical Distribution.

550 Geology.

550.1, Philosophy, Theories, Geological Time; .2, Compends; .3, Dictionaries; .4, Essays, Papers, Tracts, Letters; .5, Periodicals; .6, Societies; .7, Study and Teaching, Museums; .8, Collective Works; .9, History.

551 Physical and Dynamical Geology.

Including Physical Geography. For Cosmical Geography, see 523.

.1 Structure of Earth as a Whole.

.11 Interior of Earth.
.12 Internal Heat.
.13 Earth's Crust.
.14 Conductivity of Rocks.

.2 Seismology.

.21 Volcanoes.
.22 Earthquakes.
.23 Hot Springs, Geysers.
.24 Oscillations of the Earth's Crust.

.3 Erosion and Deposition.

.31 Glaciers and Glacial Phenomena.
.32 Moraines.
.33 Transported Materials, Till.
.34 Icebergs.
.35 Aqueous Erosion.
.36 Coast Changes.
.37 Aerial Erosion.

.4 Surface Features of the Earth.

.41 Continents.
.42 Islands.
.43 Mountains. Valleys. Orology.
.44 Caves.
.45 Plains.
.46 Oceans.
.47 Ocean Currents.
.48 Rivers. Lakes.
.49 Springs. Wells. Ground water.

Division of Oceans for use under .46 and .47

1, Atlantic. North Sea. Baltic.
2, Mediterranean. Black Sea.
3, Gulf of Mexico. Caribbean.
4, Southern Atlantic.
5, Pacific.
6, Eastern Pacific or American Coast.
7, Indian. Bay of Bengal. Red Sea.
8, Arctic.
9, Antarctic.

.5 Meteorology.

.51 Atmospheric Currents. Winds.
.52 Thermometry, Heat. See also 536.5, Temperature; 613.18, Hygiene.
.53 Hypsometry. See 526.36-8 for Methods.
.54 Barometry, Pressure.
.55 Storms.
.56 Climate.
.57 Moisture. Rainfall. Flow of Streams. Floods.
.58 Prairies, Forests, and Deserts.

.6 Metamorphism.

.7 Stratigraphical Geology.

.71 Archæan.
.72 Cambrian.
.73 Silurian. .731, Lower Silurian; .732, Upper Silurian.
.74 Devonian. Old red sandstone.
.75 Carboniferous.
.76 Triassic and Jurassic. Lias. Oolite.
.77 Cretaceous.
.78 Tertiary. .781, Eocene. .782, Miocene. .783, Pliocene.
.79 Quaternary. Postpliocene. Glacial. .791, Recent.

551.8 **Structural Geology.**

.81 Stratification.
.82 Curvature and Contortion.
.83 Ripple Marks and Sun Cracks.
.84 Joints. Cleavage. Polarity in Rocks.
.85 Dip. Outcrop. Strike.
.86 Anticlinal. Synclinal.
.87 Faults and Folds. Dislocations.
.88 Veins. Dykes. Necks. Bosses.
.89

.9 **Agents of Geological Work.**

.91 Frost.
.92 Water.
.93 Atmosphere.
.94 Chemical Changes. Heat.
.95 Animals.
.96 Coral Reefs.
.97 Plants.
.98 Segregation and Concretion.
.99 Other Agents.

552 Lithology, Petrography, Petrology.

.1 **Igneous Rocks.**

.2 **Volcanic Rocks.**

.21 Lavas. Scoria.
.22 Volcanic Ashes. Volcanic Tufa. Tuff.
.23 Obsidian. Pumice. Pitchstone.
.24 Trachyte.
.25 Rhyolite.
.26 Andesite. Dacite. Phonolite.
.27 Felsites.
.28 Basalt.
.29 Other Volcanic Rocks.

.3 **Plutonic Rocks.**

.31 Porphyry. Porphyrite.
.32 Syenite.
.33 Granite.
.34 Diabase and Gabbro.
.35 Dolerite.
.36 Diorite.
.37 Norite.
.38 Peridotite.
.39 Other Plutonic Rocks.

.4 **Metamorphic Rocks.**

.41 Granites and Syenites
.42 Gneiss.
.43 Schists.
.44 Slates. Argillite. Phyllite.
.45 Quartzite. Novaculite. Itacolumite.
.46 Marble. Crystalline limestone.
.47 Serpentine.
.48 Chrysolitic Rocks.
.49 Other Metamorphic Rocks.

552.5 **Sedimentary Rocks.**

.51 Sandstone. Conglomerate. Sand. Gravel.
.52 Shale. Clay Silt.
.53 Gypsum. Salt.
.54 Limestone. Marl. Ooze.
.55 Dolomite.
.56 Oölite.
.57 Infusorial or Diatomaceous Earth.
.58 Glauconite. Greensand.
.59 Other Sedimentary Rocks.

.6 **Meteorites.**

.7 **Decay of Rocks.**

.8 **Microscopical Petrography.**

.81 Determination of Rock Minerals.
.82 Rock Structure.

553 Economic Geology. See also 622.1, Mining engineering.

.1 **Ore Deposits.**

.11 Formation and Structure.
.12 Classification.
.13 Superficial. Placers.
.14 Stratified. Beds, etc.
.15 Unstratified.
.16 Disseminated through eruptive rocks.
.17 Stockwerks. Fahlbands. Contacts.
.18 Chambers and Pockets. Impregnations.
.19 Mineral Veins.

.2 **Carbon Series.**

.21 Peat.
.22 Lignite and Jet.
.23 Cannel Coal. Bituminous Shale.
.24 Bituminous and Semi-Bituminous Coals.
.25 Anthracite and Graphitic Anthracite.
.26 Graphite. Plumbago.
.27 Asphalt and Asphaltic Coals. Ozocerite.
.28 Petroleum. Natural Gas.
.29 Fossil Gums and Resins.

[While the history of all the other products goes here, the history of the metals is more useful in 669, Metallurgy.]

.3 **Ores of Iron.**

.4 **Ores of Metals other than Iron.**

.41 Ores of Gold.
.42 Ores of Silver.
.43 Ores of Copper.
.44 Ores of Lead.
.45 Ores of Zinc and Tin. Mercury.
.46 Ores of Manganese and Chromium
.47 Ores of Antimony and Arsenic.
.48 Ores of Nickel and Cobalt.
.49 Other Metallic Ores.

553.5 **Building Stones.**
.51 Marbles and Limestones.
.52 Granites and Syenites.
.53 Sandstones.
.54 Slates.
.55 Serpentines. Soapstones.
.56 Porphyries.
.57 Trap.
.58 Tufa. Peperino.
.59 Other Building Stones.
.6 **Earthy Economic Minerals.**
.61 Fire Clays. Brick Clays. Potter's Clays.
.62 Sands.
.63 Rock Salt. Gypsum.
.64 Phosphates. Apatite. Guano See also 631.
.65 Emery.
.66 Heavy Spar. Sulphur.
.67 Asbestus, etc.
.68 Limes and Mineral Cements.
.69 Other Earthy Economic Minerals.
.7 **Mineral Waters.**
.71 Alkaline.
.72 Saline.
.73 Chalybeate, Iron-bearing.
.74 Sulphuric.
.75 Calcic.
See also 551.23.

Divide general works geographically like 930–999; e. g. Mineral waters of Germany, 553. 7043

.8 **Gems. Ornamental Stones.**
.9 **Other Economic Minerals.**

554 Geology of Europe. 554–559 subdivided by countries like 940–999.
555 Geology of Asia.
556 Geology of Africa.
557 Geology of North America.
558 Geology of South America.
559 Geology of Oceanica. Polar Regions.

560 Paleontology. Use form divisions as in 550 and divide .9 geographically like 930–999; e. g. Paleontology of Germany is 560.943.

561 Plants. 561 is subdivided like Botany, 580.
562 Invertebrates. 562–569 is subdivided like Zoology, 592 599.
563 Protozoa. Radiates.
564 Mollusks.
565 Articulates.
566 Vertebrates.
567 Fishes. Batrachia.
568 Reptiles. Birds.
569 Mammals.

570 Biology.

570.1, Philosophy; .2, Compends; .3, Dictionaries; .4, Essays, Lectures, etc.; .5, Periodicals; .6, Societies; .7, Study and Teaching, Museums; .8, Collective Works; .9, History.

571 Prehistoric Archæology.

For Customs, see 390. For archæology of special countries, see 913.

.1 Paleolithic, or Early Stone Age.

.11 Drift Remains.
.12 Cave Men.
.13 Remains of Animals. Shells.
.14 Chipped Stones.
.15 Flint Flakes. Arrow Heads. Knives, etc.
.16 Other Stone Remains.
.19 Other Remains.

.2 Neolithic, or Late Stone Age.

.21 Stone Quarries.
.22
.23 Remains of Animals.
.24 Polished Stones.
.25 Sharpened Stones. Celts. Tools. Weapons.
.26 Perforated Stones. Spindles. Net Sinkers. Pipes.
.27 Hollowed Stones. Mortars. Cups. Food Vessels.
.28 Other Stone Remains.
.29 Other Remains.

.3 Bronze Age.

.31 Ancient Copper and Tin Mining.
.34 Bronze Remains.
.35 Tools. Weapons, etc.
.37 Cups. Vessels.
.39 Other Remains.

.4 Iron Age.

.5 Other Remains.

.51 Implements of Wood.
.52 Implements of Bone.
.53 Basket Work.
.54 Textile Fabrics.
.55 Pottery.
.56 Glass.

.6

.7 Rudiments of Art. Ornaments.

.71 Drawings.
.72 Paint.
.73 Sculptures.
.74 Beads.

.8 Dwellings.

.81 Natural Caves.
.82 Earth Houses. Pit Dwellings. Weems.
.83 Lake Dwellings. Crannoges.
.84 Cliff Dwellings.
.85 Pueblos.
.86 Tents as Dwellings.

571.9 **Mounds and Monuments.**

.91 Mounds and Mound Builders.

.92 Grave Mounds.

.93 Kitchen Middens. Shell Banks

.94 Monoliths. Cromlechs.

.95 Circles. Labyrinths.

.96 Cairns.

.97

.98

.99

572 Ethnology. Anthropology.

See also 136.4, Mental race characteristics.

.1 **Unity of the Human Race.**

.2 **Diversity of Races.**

.3 **Migrations of Men.**

.4 **Original Home of Man. Eden, Atlantis, etc.**

.5

.6

.7

.8 **Races divided by Language like 400.**

.9 **Races divided by Countries like 930-999.**

Divide by countries where possible. Use language divisions for groups like Semitic, Aryan, Teutonic, English, etc.

573 Natural History of Man.

.1 **Man's Place in Nature.**

.2 **Origin of Man.**

.3 **Antiquity of Man.**

.4 **Influence of Climate and Surroundings.**

.5 **Color in Man.**

.6 **Anthropometry.**

.7 **Craniology.**

.8 **Dwarfs and Giants.**

.9 **Monstrosities.** See also 613.91, Congenital defects; 617.3, Deformities.

574 Homologies.

575 Evolution. See also 213, Creation; 215, Religion and Science; 239.3, Apologetics.

.1 **Heredity.** See also 136.3, Mental; 233.3, Moral; 129.2, Origin of soul.

.2 **Variation.** See also 591.15, Physiological zoölogy.

.3 **Environment.** See also 136.2, Mental; 573.4.

.4 **Natural Selection.**

.5 **Sexual Selection.**

.6 **Development. Survival of the Fittest.**

.7 **Degeneration.**

.8 **Origin of Species.**

.9 **Origin of Sexes.** See also 591.36, Embryology.

576 Origin and Beginnings of Life.

.1 Spontaneous Generation.
.2 Protoplasm. Bioplasm.
.3 Cells.
.4 Beginnings of Motion and Sensation.
.5
.6

577 Properties of Living Matter.

.1 Chemical. Difference between Organic and Inorganic.
.2 Life. Difference between Dead and Living Matter.
.3 Difference between Vital and Physical Phenomena.
.4 Conditions of Life. Moisture. Temperature.
.5 Difference between Plants and Animals.
.6 Vital Force.
.7 Death.
.8 Sex in Nature.
.9

578 Microscopy. See also 535.82, Optics.

.1 Varieties of Microscopes.
.2 Optical Parts.
.3 Mechanical Parts.
.4 Accessory Apparatus and Management of Microscope.
.5 Illuminating Apparatus.
.6 Preparation and Mounting of Objects.
.7 Special Preparation and Study of Inorganic Material.
.8 " Botanical Material. See 581.8, Histology.
.9 " Zoological Material. 591.8, "

579 Collectors' Manuals.

.1 Preparing Skeletons.
.2 Preservatives and Hardening Fluids.
.3 Injections.
.4 Taxidermy.
.5 Mounting Specimens.
.6 Collecting.
.11, Alluring; Bait, Light, etc. .12, Hunting; Nets, Collecting bottle, etc. .13, Killing.
.14, Exchange. Purchase. .15 Rearing. .16, Transporting.
.7 Arrangement of Specimens in Museums.
.71, Cabinets. .72, Labels.
.8 Preservation of Specimens.
.81, Museum Pests. .82, Pestifuges. .83, Prevention of moisture. .84, Retention of colors.
.9

580 Botany.

580.1, Philosophy, Classification, Nomenclature; .2, Compends; .3, Dictionaries, Cyclopedias; .4, Essays; .5, Periodicals; .6, Societies; .7, Study and Teaching, Herbariums, Botanic Gardens; .8, Collective Works; .9, History.

581 Physiological and Structural Botany.

Subdivided where wished like 591.

.1 **Physiology.**

.2 **Pathology. Teratology.**

.21 Diseases.

.22 Teratology.

.23 Parasites.

.3 **Embryology. Germination.**

.4 **Morphology. Comparative Anatomy.**

.5 **Habits.**

.6 **Economic.**

.7 **Organography. Descriptive Anatomy.**

.8 **Histology.** See 578.8.

.9 Geographical.

.91 Distribution of Plants.

.91–99 is subdivided like 930–999.

This Geographical Classification is to be used only for general works and cross-references. The "Flora of North America" is put 581.97; but "North American Cryptogams" is classed 586 with a reference from 581.97, but No. Am. Phanerogamia goes with 581.97 because it so completely covers the subject.

General Works covering both Phanerogamia and Cryptogamia are put under 580, as books on Vertebrates and Invertebrates are put under 590.

In applying these numbers to Fossil Plants, 561, note that one more figure must be used than in Fossil Animals. The Zoölogy numbers are already given in the third place in Paleontology, e. g. 592 Invertebrates, 562 Fossil Invertebrates, and so on to 599 Mammals, and 569 Fossil Mammals. But in Fossil Plants, 561, all eight sections are grouped together and the section number must be repeated. Fossil Phanerogams are 561.2 not 562, which is assigned to Invertebrate Zoölogy as more important. Lichens are 561.91, etc. In the same way the Fossil Flora of North America is 561.197, i. e., the first two Botany figures, 58, are changed to 561 to give the corresponding Fossil Botany number, while in Zoölogy the only change is from 59 to 56 for first two figures, except in 591 which cannot change to 561, which is assigned to Botany. The Fossil Fauna of North America must therefore go among general works under 560.97.

582 Phanerogamia See also Trees 715.

The sub-sections below are taken from the recognized authority, Bentham and Hooker's Genera Plantarum.

583 Dicotyledonæ

.1 **Polypetalæ.**

.11 Ranales.

.111 Ranunculaceæ.

.112 Dilleniaceæ.

.113 Calycanthaceæ.

.114 Magnoliaceæ.

.115 Anonaceæ.

.116 Menispermaceæ.

.117 Berberideæ.

.118 Nymphæaceæ.

583.12 **Parietales.**
.121 Sarraceniaceæ.
.122 Papaveraceæ.
.123 Cruciferæ.
.131 Capparideæ.
.133 Resedaceæ.
.134 Cistineæ.
.135 Violarieæ.
.137 Canellaceæ.
.138 Bixineæ.
.14 **Polygalineæ.**
.141 Pittosporeæ.
.142 Tremandreæ.
.143 Polygaleæ.
.145 Vochysiaceæ.
.15 **Caryophyllineæ.**
.151 Frankeniaceæ
.152 Caryophylleæ.
.153 Sileneæ.
.154 Alsineæ.
.155 Polycarpeæ.
.156 Portulaceæ.
.158 Tamariscineæ.
.16 **Guttiferales.**
.161 Elatineæ.
.162 Hypericineæ.
.163 Guttiferæ.
.166 Ternstrœmiaceæ.
167 Dipterocarpeæ.
.168 Chlænaceæ.
.17 **Malvales.** Malvaceæ.
.18 Sterculiaceæ.
.19 Tiliaceæ.
.21 **Geraniales.**
.211 Lineæ.
.213 Humiriaceæ.
.214 Malpighiaceæ.
.221 Zygophylleæ.
.223 Geraniaceæ.
.23 Rutaceæ.
.241 Simarubeæ.
.245 Ochnaceæ.
.247 Burseraceæ.
.251 Meliaceæ.
.255 Chailletiaceæ

583.26	**Olacales.**
.261	Olacineæ.
.269	Ilicineæ.
.27	**Celastrales.**
.271	Celastrineæ.
.274	Stackhousieæ
.275	Rhamneæ.
.279	Ampelideæ.
.28	**Sapindales.**
.281	Sapindaceæ.
.291	Sabiaceæ.
.292	Anacardiaceæ.
.297	**Anomola.**
.298	Coriarieæ.
.299	Moringeæ.
.3	**Rosales.**
.31	Connaraceæ.
.32	Leguminosæ.
.37	Rosaceæ.
.38	Saxifrageæ.
.39	Crassulaceæ.
.393	Droseraceæ.
.394	Hamamelideæ.
.396	Bruniaceæ.
.398	Halorageæ.
.4	**Myrtales.**
.411	Rhizophoreæ.
.414	Combretaceæ.
.42	Myrtaceæ.
.43	Melastomaceæ.
.441	Lythrarieæ.
.445	Onagrarieæ.
.45	**Passiflorales.**
.451	Samydaceæ.
.453	Loaseæ.
.455	Turneraceæ.
.456	Passifloreæ.
.461	Cucurbitaceæ.
.468	Begoniaceæ.
.469	Datisceæ.
.47	**Ficoidales.**
.471	Cacteæ.
.475	Ficoideæ.
.48	**Umbellales.**
.481	Umbelliferæ.
.491	Araliaceæ.
.497	Cornaceæ.

583.5 **Gamopetalæ.**

.51 **Rubiales.** Caprifoliaceæ

.52 Rubiaceæ.

.53 **Asterales.**

.531 Valerianeæ.

.541 Dipsaceæ.

.546 Calycereæ.

.55 Compositæ.

.57 **Campanales.** Stylidieæ.

.58 Goodenovieæ.

.59 Campanulaceæ.

.6 **Ericales.**

.61 Vacciniaceæ.

.62 Ericaceæ.

.63 Monotropeæ

.64 Epacrideæ.

.65 Diapensiaceæ.

.66 Lennoaceæ.

.67 **Primulales.**

.671 Plumbagineæ.

.672 Primulaceæ.

.677 Myrsineæ.

.68 **Ebenales.**

.681 Sapotaceæ.

.685 Ebenaceæ.

.686 Styraceæ

.7 **Gentianales**

.71 Oleaceæ.

.716 Salvadoraceæ.

.72 Apocynaceæ.

.73 Asclepiadeæ.

.74 Loganiaceæ

.75 Gentianeæ.

.76 **Polemoniales.**

.761 Polemoniaceæ.

.764 Hydrophyllaceæ.

.77 Boragineæ.

.78 Convolvulaceæ.

.79 Solanaceæ.

.8 **Personales.**

.81 Scrophularineæ.

.821 Orobanchaceæ.

.825 Lentibularieæ.

.829 Columelliaceæ.

.83 Gesneraceæ.

.84 Bignoniaceæ.

.85 Pedalineæ.

.86 Acanthaceæ.

.87 **Lamiales.**

.871 Myoporineæ.

.876 Selagineæ.

.88 Verbenaceæ.

.891 Labiatæ.

.899 **Ordo anomalus.** Plantagineæ.

583.9 **Apetalæ.**

.91 **Curvembryeæ.**
.911 Nyctagineæ.
.912 Illecebraceæ.
.913 Amarantaceæ.
.914 Chenopodiaceæ.
.915 Phytolaccaceæ.
.916 Batideæ.
.917 Polygonaceæ.
.92 **Multiovulatæ Aquaticæ.**
.921 Podostemaceæ.
.922 **Multiovulatæ Terrestres.** Nepenthaceæ
.923 Cytinaceæ.
.924 Aristolochiaceæ.
.925 **Micrembryeæ.** Piperaceæ.
.926 Chloranthaceæ.
.927 Myristiceæ.
.928 Monimiaceæ.
.93 **Daphnales.**
.931 Laurineæ.
.932 Proteaceæ.
.933 Thymelæaceæ.
.934 Penæaceæ.
.935 Elæagnaceæ.
.94 **Achlamydosporeæ.**
.941 Loranthaceæ.
.943 Santalaceæ.
.947 Balanophoreæ.
.95 **Unisexuales.**
.951 Euphorbiaceæ.
.961 Balanopseæ.
.962 Urticaceæ.
.971 Platanaceæ.
.972 Leitnerieæ.
.973 Juglandeæ.
.974 Myricaceæ.
.975 Casuarineæ.
.976 Cupuliferæ.
.98 **Anomali.**
.981 Salicineæ.
.983 Lacistemaceæ.
.984 Empetraceæ.
.987 Ceratophylleæ.

584 Monocotyledonæ.

.1 Microspermeæ.
.11 Hydrocharideæ.
.13 Burmanniaceæ.
.15 Orchideæ.
.2 **Epigyneæ.**
.21 Scitamineæ.
.22 Bromeliaceæ.
.23 Hæmodoraceæ.
.24 Irideæ.
.25 Amaryllideæ.
.26 Taccaceæ.
.27 Dioscoreaceæ.
.3 Coronarieæ.
.31 Roxburghiaceæ.
.32 Liliaceæ.
.34 Pontederiaceæ.
.35 Philydraceæ.
.36 Xyrideæ.
.37 Mayaceæ.
.38 Commelinaceæ.
.39 Rapateaceæ.
.4 **Calycineæ.**
.41 Flagellarieæ.
.45 Juncaceæ.
.5 Palmæ.
.6 **Nudifloreæ.**
.61 Pandaneæ.
.62 Cyclanthaceæ
.63 Typhaceæ.
.64 Aroideæ.
.68 Lemnaceæ.
.7 **Apocarpeæ.**
.71 Triurideæ.
.72 Alismaceæ.
.74 Naiadaceæ.
.8 **Glumaceæ.**
.81 Eriocauleæ.
.82 Centrolepideæ.
.83 Restiaceæ.
.84 Cyperaceæ.
.9 Gramineæ.

585 Gymnospermæ.

.1 **Gnetaceæ.**
.2 **Coniferæ.**
.9 Cycadaceæ.

586 Cryptogamia.

587 Pteridophyta.

.1 **Isoeteæ.**
.2 **Equisetæ.**
.3 **Filicinæ.**
.9 **Lycopodinæ.**

588 Bryophyta.

.1 **Sphagna.**
.2 **Musci.**
.3 **Hepaticæ.**
.4 **Characeæ.**

589 Thallophyta.

.1 **Lichenes.**
.11 **Basidiolichenes.**
.15 **Ascolichenes.**
.16 Angiocarpæ.
.17 Gymnocarpæ.
.18 Gelatinosæ.
.19 Byssaceæ.
.2 **Fungi.**
.21 **Carposporeæ.**
.22 Basidiomycetes.
.221 Gasteromycetes.
.222 Hymenomycetes.
.224 Tremellinæ.
.225 Uredineæ.
.227 Ustilagineæ.
.229 Entomophthoreæ.
.23 Ascomycetes.
.231 Tuberaceæ.
.233 Discomycetes.
.235 Pyrenomycetes.
.238 Gymnoasceæ.
.24 **Oosporeæ.**
.25 Peronosporeæ.
.26 Saprolegnieæ.
.27 **Zygosporeæ.**
.28 Zygomycetes.
.29 Myxomycetes.
.3 **Algæ.**
.4 **Carposporeæ.**
.41 Florideæ.
.47 Coleochaeteæ.
.5 **Oosporeæ.**
.6 **Zygosporeæ.**
.61 Conjugateæ.
.67 Zoosporeæ.
.7 **Protophyta.**
.8 **Chlorophyllaceæ.**
.9 **Achlorophyllaceæ.**
.91 Saccharomycetes. **Yeast.**
.95 Schizomycetes. Bacteria. Microbes

See also 614.41, Origin of infectious diseases; 616.01, Germ theory of disease.

590 Zoology.

590.1, Philosophy, Classification; .2, Compends; .3, Dictionaries; .4, Essays, Lectures, etc.; .5, Periodicals; .6, Societies; .7, Study and Teaching, Zoological Gardens, Aquaria, Museums; .8, Collective Works; .9, History.

591 Physiological Zoology.

.1 Physiology.

.11 Circulation.

.12 Respiration.

1, Nature; 2, Dermal; 3, Aquivascular; 5, Branchial; 6, Tracheal; 7, Pulmonary; 9, Exhalation of Aqueous Vapor.

.13 Nutrition.

1, Acquisition of Food; 2, Digestion of Food; 3, Assimilation of Food; 4, Growth; 5, Development; 6, Repair of Waste; 7, Production of Organic Material; 8, Conditions of Nutritive Activity; 9, Longevity, Vitality.

.14 Secretion and Excretion.

1, Mucous and Sebaceous; 2, Sericeous; 3, Digestive, salivary, gastric, pancreatic; 4, Odoriferous, sweet, etc.; 5, Poisonous, gall-formation, caprification; 591.65 6, Mammary, spermatic: 7, Lachrymal; 8, Biliary; 9, Urinary and Fecal.

.15 Variation. See also 575.2, Evolution.

1, Polymorphic; 2, Geographic; 3, Heterophagic; 4, Polygoneutic; 5, Mimetic; 6, Sexual; 7, Colorational; 8, Hybrids; 9, Monstrosities.

.16 Generation.

1, Abiogenesis; 2, Parthenogenesis, neuters; 3, Metagenesis, pædogenesis, nurses; 5, Fission and Gemmation; 6 Fecundation; 7, Hermaphrodites; 8, Vivipara; 9, Superfœtation.

.17 Histogenesis.

1, Development of Sperm-cells; 2, Development of Germ-cells, micropyle; 9, Reparation of Wounds.

.18 Nervous Functions and Sensation.

.19 Physiological chemistry.

.2 Pathology.

.3 Embryology.

.33, Development of Embryo; .34, Metamorphosis, larva, pupa, moulting; .35. Hypermetamorphosis; .36, Production of Sexes. See also 575.9, Origin of sexes.

.4 Morphology. Comparative Anatomy.

.41 Circulatory Organs.

.42 Respiratory Organs.

.43 Nutritory Organs.

.44 Secretory and Excretory Organs.

.45

.46 Generatory Organs.

.47 Motory Organs.

.48 Nervous System.

.49 Integument. Dermoskeleton. Skeleton.

.5 Habits and Behavior.

.51 Instinct. Reason.

.52 Abode. Migration.

.53 Food.

.54 Seasons. Hibernation.

.55 Sociability.

.56 Philoprogenitiveness. Breeding

.57 Means of Protection. Fascination.

.58

.59 Other Habits.

591.6 **Economic.**

.61 Usefulness.

.62 In Nature.

.63 As Food and Medicine for Man.

.64 In Chemistry and Manufactures.

.65 Noxiousness.

.66 Offensive Animals.

.67 Animals causing Diseases.

.68 Injuring Vegetable and Animal Products and Inorganic Substances

.69 Injuring Living Plants and Animals. Parasites.

.7 **Organography. Descriptive Anatomy.**

Subdivided like 591.4, Morphology.

.8 **Histology.** See also 578.9, Microscopical zoölogy.

.9 **Geographical Distribution of Animals.**

Subdivided like 930–999, using .92 for ocean.

592 Invertebrates.

593 Protozoans. Radiates.

.1 **Protozoans.**

.11 Rhizopoda.

.12 Foraminifera.

.13 Heliozoa.

.14 Radiolaria. Polycystina.

.15 Infusoria.

.16 Flagellata.

.17 Ciliata.

.18

.19 Gregarinidæ.

.2 **Radiates.**

.3 **Cœlenterata.** Acalepha (old use of term, now limited to 593.73).

.4 **Sponges. Porifera. Spongia.**

.5 **Cnidaria.**

.6 **Actinozoa. Polyps. Corals and Sea Anemones.**

.61 Rugosa. Tetracorolla.

.62 Alcyonaria. Octocorolla.

.63 Zoantharia. Hexacorolla.

.64 Antipatharia.

.65 Actinaria.

.66 Madreporaria.

.7 **Hydrozoa.**

.71 Hydromedusæ.

.72 Siphonophora.

.73 Acalepha.

.74 Calycozoa

.76 Marsupialida.

.77 Discophora. Jelly Fish.

.8 **Ctenophora. Jelly Fish.**

593.9 Echinodermata.
.91 Crinoidea. Sea Lilies.
.92 Asteroidea. Star Fish.
.93 Stelleridea.
.94 Ophiuridea.
.95 Echinoidea. Sea Urchins.
.96 Holothuroidea. Sea Cucumbers.
.97 Pedata.
.98 Apoda.
.99 Enteropneusta.

594 Mollusks.

.1 Lamellibranchiata. Bivalves.
.2 Scaphopoda.
.3 Gastropoda. Univalves. Snails. Slugs. See also 632, Pests.
.4 Pteropoda. Winged Shells.
.5 Cephalopoda. Squids and Cuttle Fish.
.6 Molluscoidea.
.7 Bryozoa. (Polyzoa.) Sea Mats.
.8 Brachiopoda. Lamp Shells.
.9 Tunicata. (Ascidia.) Sea Grapes.

595 Articulates.

.1 Worms. Vermes. See also 632, Pests.
.2 Arthropoda.
.3 Crustacea.
.31 Entomostraca. Cyclops, Shrimps, etc.
.32 Phyllopoda.
.33 Ostracoda.
.34 Copepoda.
.35 Cirripedia. Barnacles, etc.
.36 Malacostraca. Sandbugs, Crabs, Lobsters, etc.
.37 Arthrostraca.
.38 Thoracostraca.
.39 Gigantostraca. Trilobites.
.4 Arachnida. Spiders. Scorpions. Mites. See also 632, Pests.
.5 Onychophora.
.6 Myriopoda. Centipedes, etc. See also 632, Pests.
.7 Insects. Insecta. Hexapoda. See also 632, Pests.
.71 Thysanura. Bristle-tails, spring-tails, etc.
.72 Orthoptera. Grasshoppers, etc.
.73 Pseudoneuroptera. Dragon-flies, white ants, etc.
.74 Neuroptera. Caddice flies, etc.
.75 Rhynchota. (Hemiptera.) Bugs, etc.
.76 Coleoptera. Beetles.
.77 Diptera. Flies, etc.
.78 Lepidoptera. Butterflies, Moths.
.79 Hymenoptera. Bees, Wasps, etc.

596 Vertebrates.

597 Fishes. Pisces.

.1 Pharyngobranchii. Lancelet.
.2 Marsipobranchii. Lampreys.
.3 Elasmobranchii. Sharks, Rays, etc.
.4 Ganoidei. Sturgeons, Garpikes, etc.
.5 Teleostei. True bony fishes.
.6 Batrachia. (Amphibia.)
.7 Ophiomorpha.
.8 Anura. Toads, Frogs.
.9 Urodela. Salamanders.

598 Reptiles. Birds.

.1 Reptiles.
.11 Lacertilia. Lizards.
.12 Ophidia. Snakes.
.13 Chelonia. Turtles.
.14 Crocodilia. Crocodiles.
.15 Ichthyopterygia.
.16 Sauropterygia.
.17 Anomodontia.
.18 Pterosauria.
.19 Dinosauria.
.2 Birds. Aves.
.3 Grallatores. (Waders.)
.4 Natatores. (Swimmers.)
.5 Cursores. (Runners.)
.6 Rasores. (Scratchers.)
.7 Scansores. (Climbers.)
.8 Insessores. (Perchers.)
.9 Raptores. (Birds of Prey.)

599 Mammals. Mammalia.

.1 Monotremata. Duck-billed Platypus.
.2 Marsupialia. Kangaroos, Opossums.
.3 Edentata. Rodentia. Insectivora. Sloths. Rodents. Moles.
.4 Cheiroptera. Bats.
.5 Cetacea. Sirenia. Whales, etc.
.6 Proboscidea. Hyracoidea. Elephants. Hyrax.
.7 Ungulata. Carnivora. Domestic Mammals. See also 636.
.8 Quadrumana. Apes.
.9 Bimana. Man. See also 573, Nat. hist. of man; 610, Medicine.

Useful Arts.

600 Useful Arts.

601 Philosophy. Theories, etc.

602 Compends. Outlines.

603 Dictionaries. Cyclopedias.

604 Essays. Lectures. Addresses.

605 Periodicals. Magazines. Reviews.

606 Societies. Fairs. Exhibitions.

Special exhibitions go with their topics. This is general only.

607 Education. Schools of Technology.

Divided like 940–99.

608 Patents. Inventions.

609 History of Useful Arts in General.

For its History, see each special department.

610 Medicine.

.1, Philosophy, Theories; .2, Compends; .3, Dictionaries, Cyclopedias; .4, Essays; .5, Periodicals; .6, Societies; .7, Study and teaching; .71, Medical schools; .72, Medical education of women; .73, Training schools for nurses; .77, Medical museums; .8, Collections; .9, History of Medicine.

611 Anatomy. Histology.

May be subdivided by a o, like 610, if wished. Put Dissection in 611.07. For Malformations see 617.3, Orthopædic Surgery. See also 591.4, Comparative Anatomy; 591.8, Histology.

.1 Circulatory System.

.11 Pericardium.
.12 Heart.
.13 Arteries.
.14 Veins.
.15 Capillaries.

.2 Respiratory System.

.21 Nasal Passages.
.22 Larynx.
.23 Trachea. Bronchi.
.24 Lungs.
.25 Pleura.
.26 Diaphragm and other muscles of respiration.

.3 Digestive System.

.31 Mouth. Tongue. Teeth. Salivary Glands.
.32 Pharynx. Oesophagus.
.33 Stomach.
.34 Intestine.
.35 Rectum. Anus.
.36 Liver. Gall Bladder.
.37 Pancreas.
.38 Peritoneum. Omentum. Mesentery.

.4 Glandular and Lymphatic System.

Put glands of any special system with that system. See 611.36, Liver; 611.61, Kidneys; 611.31, Salivary Glands; 611.69, Mammary Glands.

.41 Spleen.
.42 Lymphatics.
.43 Thymus.
.44 Thyroid.
.45 Suprarenal Bodies.
.46

.6 Genito-Urinary System. Breasts.

.61 Kidneys. Ducts. Ureters.
.62 Bladder. Urethra.
.63 Testes. Spermatic Cord. Scrotum.
.64 Penis.
.65 Ovaries. Fallopian Tubes.
.66 Uterus.
.67 Vagina. Vulva.
.68
.69 Mammary Glands.

611.7 **Motor and Integumentary System.**

.71 Bones. Skeleton.
.72 Articulations. Joints. Cartilages.
.73 Muscles.
.74 Tendons. Fasciæ.
.75 Bursæ. Sheaths of Tendons.
.76 Connective Tissue.
.77 Skin.
.78 Hair. Nails.

.8 **Nervous System. Sensory Apparatus.**

.81 Brain and its Meninges.
.82 Spinal Cord and its Meninges.
.83 Nerves.
.84 Sight.
.85 Hearing.
.86 Smell.
.87 Taste.
.88 Touch.
.89 Ganglia.

.9 **Regional Anatomy.**

.91 Head.
.92 Face.
.93 Neck.
.94 Chest.
.95 Abdomen.
.96 Pelvis.
.97 Upper Extremities.
.98 Lower Extremities.

612 Physiology.

May be subdivided by a 0, like 610, if wished. For Vital Phenomena in general, see 577, Properties of living matter. Use 612.01 for general works on Physiological Chemistry. See also 591.1, Physiology of Animals.

.1 **Blood and Circulation.**

.11 Blood and its Physical Properties. **See also 612.23, Changes in Blood.**

.1, Red Globules; .2, Leucocytes; .3, Arterial Blood; .4, Venous Blood; .5, Coagulation; .6, Quantity; .7, Color; .8, Other Properties; .9, Blood-making. **Sanguification.**

.12 Chemical Composition.
.13 Hydraulic Principles of Circulation.
.14 Blood Pressure.
.15 Rapidity of Flow.
.16 Pulse Wave.
.17
.18
.19 Functions of Special Organs.

.2 **Respiration.**

.21 Respiratory Movements.
.22 Gas Exchange.
.23 Changes in Blood. See also 612.11, Blood.
.24 Capacity of the Lungs.
.25 Exhalation of Vapor of Water.
.26 Change of excreted Organic Particles.
.27
.28
.29 Functions of Special Organs.

612.3 Digestion. Absorption. Nutrition.

.31 Mouth. Teeth. Salivary Glands.
.32 Stomach. Vomiting, see 616.33.
.33 Intestine.
.34 Pancreas. Pancreatic Fluid.
.35 Liver.
.36 Defecation.
.37
.38 Absorption.

.1, Imbibition; .2, Osmosis; .3, Diffusion; .4, Skin, see also 612.79 and 615.67; .5, Lungs, see also 612.29 and 615.64; .6, Alimentary Canal, see also 612.3; .7, Other Mucous Membranes, see also 615.66; .8, Parenchymatous Absorption.

.39 Nutrition.

.1, Hunger and Thirst; .2, Nutriments; .3, Stimulants; .4, Growth; .5, Repair; .6, Carbohydrates; .7, Fats; .8, Albuminoids. For Diet, see 613.2.

.4 Secretion Excretion.

Divided like 611.4. Add 612.46, Kidneys, Bladder, Urine, etc.; 612.49, for Vicarious Secretion. Put secretions of special systems with those systems; e. g. of the Liver, 612.35.

.5 Animal Heat.

.51 Sources of Heat.
.52 Loss of Heat.
.53 Regulation of Heat.
.54 Conditions Influencing Temperature.
.55 Variations of Heat.
.56 Temperature of Body.
.57 Fever. See 616.92, Diseases.
.58

.6 Reproduction. Development.

.61 Male Functions of Generation.
.62 Female Functions of Generation.
.63 Impregnation.
.64 Development of Embryo.

For abnormal development of embryo, see 617.3, Deformities.

.65 Growth after Birth.
.66 Period of full Development.

1, Puberty; 2, Menstruation; 3, Fecundity; 4, Lactation.

.67 Period of Decline. Death. See also 577.7, Biology.
.68 Longevity. See 368.3, Life Insurance; 519.5, Probabilities; 614.12, Death Rates.
.69

.7 Function of Motor and Vocal Apparatus and Skin.

.71 Protoplasm. See 576.2, Origin of Life.
.72 Cilia.
.73 Smooth Muscles.
.74 Striped Muscles.

For structure and chemical composition of muscles, see 611.73, Anatomy.
1, Contraction; 2, Rigor; 3, Electrical Phenomena; 4, Chemical Changes; 5, Heat Production. See also 612.51, Animal Heat.

.75 Bones. Joints.
.76 Locomotion.
.77
.78 Voice and Speech. See 784.9, Vocal Hygiene; 808.5, Elocution; 534.7, Sound.
.79 Skin. Hair. Nails.

612.8 Nervous Functions.

.81 Nerve Fibres.
.82 Central Nervous System. Brain.
.83 Spinal Cord.
.84 Sight. See also 152.1, Mental faculties; 535.7, Optics.
.85 Hearing. See also 152.2, Mental faculties; 534.7, Acoustics.
.86 Smell. Olfaction. See also 152.3.
.87 Taste. Gustation. See also 152.4.
.88 Touch. See also 152.5.
.1, Space; .2, Temperature; .3, Pressure; .4, Pain; .5, Muscular Sense; see also 152.6.
.89 Sympathetic Nervous System. Ganglia.

613 Personal Hygiene.

Care of Health; Prophylaxis; Individual Health; Laws of Health.
.02, Compends; .03, Dictionaries, Cyclopedias; .04, Essays; .05, Periodicals; .06, Societies; .07, Study and Teaching; .08, Sanitary Appliances; .09, History, Description, Reports, etc., divided like 930–999.

.1 Air and Light.

For Air Analysis, see 543.7; Air Pollution, 614.7; Ventilation, 628.8.

.11 Climate. Acclimation. See 551.5, Meteorology; 615.834, Therapeutics; 614.42, Geographical distribution of disease.
.12 Health Resorts. Mountain. Sea-shore.
Regions exempt from special diseases.
.13 Seasons. Time of Day.
.14 Malaria. Moisture. Ground Air. See Public Health, 614.775, 614.773, and 614.778.
.15 Purification of Air.
.16 Special Influences. Ozone, Electricity, etc.
.17 Quantity of Air Necessary.
.18 Temperature. See also 536.5, Heat; 551.52, Meteorology.
.19 Sunlight.

.2 Food. Dietetics.

For Food Analysis, see 543.1; Adulterations, 614.31; Digestion and Nutrition, 612.3.

.21 Dietaries.
Including food for special classes of people; literary men, soldiers, etc.
.22 Food for Infants.
.23 Food for the Sick.
Including means for giving nutrition, baths, enemeta, forced alimentation, etc.
.24 Fasting. Famine. Starvation.
.25 Excess of Food.
.26 Vegetable Food.
.27 Fruits.
.28 Animal Food. Meats.
.29 Fish, Oysters, etc.

.3 Beverages.

For alcoholic beverages, see 613.81 and 178, Temperance Ethics; Inspection of beverages, 614.34.

.31 Water as a Beverage.
.32 Impurities in Water and Ice. See also 628.16, Water supply of towns.
.33 Microscopical Analysis. For Chemical Analysis, see 543.3.
.34 Biological Analysis.
.35 Purification. Filtration, Boiling, Chemical, etc. See also 628.16, Water Supply.
.36 Cold Drinks.
.37 Hot Drinks. Tea, Coffee, etc. See also 614.347, Adulterations.
.38 Mineral Waters, Carbonated Waters, etc. See also 614.348, Adulterations; 615.79, Therapeutics.
.39 Other Beverages.

613.4 Cleanliness of Body. Clothing.

See also 646, Clothing, Toilet, etc.; 391, Customs, Care of Person, Bathing, Toilet. For Therapeutic baths, electric, sulphur, etc., see 615.67.

.41 Baths.
.42 Warm.
.43 Cold. For Swimming, see 796.
.44 Douche or Shower.
.45 Sea. Salt.
.46 Hot Air. Turkish. Russian. Roman, etc.
.47 Public.
.48 Clothing.
1, Material, wool, cotton, etc.
2, Quantity.
3, Cleanliness.
4, Pressure. Corsets, garters, tight boots, support from hips, etc.
.49

.5 Human Habitation and Resort.

For Heating, see 697; Ventilation, 628.8; House drainage, 628.6; Sanitation of towns, 628.4; Industrial sanitation, 628.5.
These subjects, partly Public and partly Private Hygiene, are for convenience grouped together here.

.51 Homes.
.52 Hotels.
.53 Tenements.
.54 Schools. Colleges. See School hygiene, 371.7.
.55 Churches, Theaters, Halls, etc.
.56 Hospitals. Asylums.
.57 Prisons. Reformatories.
.58
.59 House Furnishing.
1, Bed and Bedding.
2, Curtains. Tapestries.
3, Carpets. Rugs. Floors.
4, Wall Paper.
9, House Cleaning.

.6 Hygiene of Employment.

For Labor of children, see 331.3; Mining dangers and accidents, 622.8; see also Laboring classes, 331.8; Industrial sanitation, 628.5; Nuisances, 614.7.

.61 Over-hours. Over-work.

Occupations made Injurious.

.62 By Inhalation of Vapors and Gases.
Bleachers, match-makers, lard refiners, etc.
.63 By Inhalation of Dust or by Absorption.
Grinders, stone-cutters, millers, wool operatives. hair pickers, type founders, grocers, etc.
.64 By Elevated, Low, or Variable Temperature.
Bakers, forgemen, mariners, fishermen, farmers, laborers, etc.
.65 By Over-use of certain Organs. By Constrained Attitude and Sedentary Life.
Engravers, public speakers, copyists, printers, salesmen, clerks, literary men, etc. See also Mental hygiene, 131.
.66 By Accidents. See Public health, 614.8, Protection from accidents.
Machinists, quarrymen, caisson-workers, manufacturers of explosives, etc.
.67 Military Hygiene. Barracks, Camp and Tent Life.
.68 Naval Hygiene. Ship Life.
.69 Hygiene of Travel and Exploration.

613.7 **Hygiene of Recreation and Sleep.**

.71 Gymnastics. See also 371.73, School Hygiene, Care of Body
For Curative gymnastics, see 615.82, Massage.

.72 Athletics and other Muscular Exercise.
See also 796, Out-door sports.

.73 Training and Overstrain. See also 371.75, Championship games

.74 Amusement or Play.
See also 796, Out-door sports, and 371.74, Recreations.

.75 Parks.
Some subjects more properly placed in Public Health, are grouped here by attraction.

.76 Vacations. See also 371.23, School Vacations.

.77 Holidays. See also 371.23, School Holidays.

.78

.79 Rest and Sleep. Late Hours. See 613.86, Insomnia.

.8 **Hygiene of Nervous System.**
Including the action of Stimulants and Narcotics. See also 615.78, Drugs acting on Nervous System; 615.95, Neurotic Poisons.
For Mental overwork, see 131, Mental Hygiene. See also 178, Temperance.

.81 Alcohol. See also Temperance, 178; Beverages, 613.3; Inspection of Beverages, 614.34.

.82 Opium and Hasheesh. See also 178.8.

.83 Chloral and Caffeine. See also 178.8.

.84 Tobacco. See also 178.7.

.85 Other Narcotics.

.86 Insomnia. See also 613.79, Rest and Sleep.

.87 Morbid Habits. Bad Social Customs. See also Social Ethics, 177.

.88 Luxury. Privation.

.89 Celibacy. Monogamy. Polygamy.
See also Polygamy and Monogamy, 173.2; Sexual Ethics, 176; Celibacy of Clergy, 254; Asceticism, 248.

.9 **Hygiene of Offspring. Heredity.**
See also Heredity, 575.1.

.91 Congenital Defects of Body.
See also Monstrosities, 573.9; and Orthopædic Surgery, 617.3.

.92 Inherited Mental Disability.
See also Mental heredity, 136.3; Mental derangements, 132; and Mental physiology and hygiene, 131.

.93 Transmitted Disease.
See also special diseases in 616.

.94 Stirpiculture.

614 Public Health.

Public Hygiene. Public Sanitation. State Medicine. Preventive Medicine. See also 628, Sanitary Engineering; 352.4, Boards of Health.

.02, Compends; .03, Dictionaries, Cyclopædias; .04, Essays; .05, Periodicals; .06, Societies, Conventions; .07, Education; .08, Sanitary Appliances, Exhibitions; .09, History, Description, Legislation, Reports, etc., divided like 930–999, e.g. 614.0942, Public Health in England.

.1 Registration and Vital Statistics. See 312, Population.

.11 Births and Birth-rates.

.12 Deaths and Death-rates.

Divided geographically like 930–999, e.g. Death-rate in England, 614.1242.

.13 Mortality at Different Ages.

For Life Insurance, Life Tables, Biometry, etc., see Life Insurance, 368.3, and Life Contingencies, 519.5; Longevity. 612.68.

.131 Still-births.

.132 Infant Mortality.

.133 Mortality in Childhood.

.134 " " Adult Life.

.135 " " Old Age.

.14 Mortality of Sexes, Races, etc.

.141 " " the Sexes.

.142 " " Males.

.143 " " Females.

.144 " " Races, Colored, White, Indian, etc.

.145 " " City and Country.

.15 " " Different Occupations. See also 613.6.

.16 " from Special Diseases. Causes of Death.

.17 Marriage.

.18 Divorce. See also 173.1, Family Ethics.

.2 State Control of Medicine.

.21 Medical Education and Degrees. See 610.7; 378.2, Academic Degrees.

.22 Anatomy and Vivisection Laws. See 179.4, Ethics.

.23 Expert Testimony and other Medico-Legal Relations. See 340.6, Medical Jurisprudence.

.24 Registration of Physicians, Dentists, Pharmacists, etc. License to Practice.

.25 Regulation of Medical Practice. See 174.2, Professional Ethics, Physicians.

.26 Quackery and Malpractice.

.27 Nostrums and Patent Medicines. See also 614.353, Adulterations.

.28 Sale of Poisons. See 615.9, Toxicology.

.29 Medical Police.

.3 Adulterations. Inspection of Articles Liable to Affect Public Health. Public analysts. State laboratories. For chemical analysis see 543.

.31 Inspection of Food. For chemical analysis see 543.1; Hygiene, 613.2.

.311 Sugars. Syrups. Confectionery.

.312 Cereals. Starches. Bread.

.313 Lards. Fats. Oils. See 614.325–6, Butter, Oleomargarine.

.314 Spices. Condiments.

.315 Yeast. Baking Powders. Cream of Tartar.

.316 Vegetables. Fruits. (Fresh.)

.317 Meats. Fish. (Fresh.)

.318 Canned or Preserved Food. Vegetables. Fruits.

.319 Meat. Fish. Oysters. (Preserved.)

.32 Milk and Milk Products.

.321 Milk Analysis. See also 543.2, chemistry.

.322 Milk of Known Purity.

.323 Milk as Sold to Consumer.

.324 Cream. Skimmed Milk. Condensed Milk. Buttermilk. Kumiss.

614.325 Butter and its Imitations.
.326 Oleomargarine.
.327 Cheese and its Imitations.
.33 Other Articles of Food.
.34 Inspection of Beverages. For chemical analysis see 543.1; Hygiene, 613.3.
.341 Fermented.
.342 Wine.
.343 Brewed.
.344 Beer.
.345 Distilled.
.346 Fruit Drinks. Lemonade, Shrub, etc.
.347 Tea. Coffee. Chocolate. Cocoa. See also 613.37, Hygiene.
.348 Mineral Waters. Soda Water. See also 613.38, Hygiene; 615.79, Therapeutics.
.349 Mixed Drinks.
.35 Inspection of Drugs. For chemical analysis see 543.4.
.351 Officinal or Pharmacopœial Drugs.
.352 Non-officinal Drugs.
.353 Empirical or Patent Medicines. See also 614.27, State control.
.354 Cosmetics.
.355 Poisonous Cosmetics.
.36 Inspection of Tobacco.
.37 Inspection of Pigments, Wall and other Papers, Textile Fabrics, Toys, etc.

.4 Contagious and Infectious Diseases. General.

.41 Causes and Origin. See 589.95, Bacteria, Microbes; 616.01, Germ theory of disease.
.42 Geographical Distribution. Climatology.
.43 Modes of Propagation and Communication.
.44 Prevention and Restriction. See Ambulances, 614.882.
.45 Isolation, Lazarettos, etc.
.46 Quarantine, etc.
.461 Maritime Quarantine.
.462 Inland "
.463 Control of Rags, etc.
.47 Protective Inoculation.
.471 Against Small-pox. See also 616.912, Pathology.
.472 Variolation.
.473 Vaccination.
.1, Bovine Vaccination; .2, Humanized Vaccination; .3, Vaccinal Syphilis; .4, Re-vaccination; .5, Vaccinisation; .6, Re-vaccinisation; .7, Retro-vaccination; .8, Compulsory Vaccination; .9, Optional Vaccination.
.474 Anti-vaccination.
.475 Against Cholera. See also 616.932, Pathology.
.476 " Yellow Fever. See also 616.928, Pathology.
.477 " Hydrophobia. Pasteurism. See also 616.953, Pathology.
.48 Disinfection. Houses, Clothing, Rags, Workshops, Cars, Ships, Camps, Air, Soil, Persons, Sewers, Vaults, Excreta. Dead, see Embalming, etc., 614.64.
.481 Fumigating and other Apparatus. 1, Stationary; 2, Portable.
.482 Disinfectants. Antiseptics. Deodorizers.
Treated with reference to Public Health. See also Materia Medica 615.777 & 615.778.
.483 Heat.
.484 Chemical Disinfectants.
.485 Carbolic.
.486 Salicylic.
.487 Chlorides.
.488 Copperas.
.489
.49 Epidemics. Plagues.

614.5 Contagious and Infectious Diseases. Special.

These heads are for Public Health discussions only. For treatment, etc., see Pathology, 616.

.51 Filth Diseases.
.511 Typhoid or Enteric Fever.
.512 Diphtheria.
.513 Diarrhœal Diseases.
.514 Cholera.
.515 Cholera-infantum.
.516 Dysentery.
.517 Diarrhœa.
.52 Exanthemata.
.521 Small-pox.
.522 Scarlet Fever.
.523 Measles.
.524 Rötheln.
.525 Chicken-pox.
.526 Typhus.
.53 Malarial Fevers.
.531 Intermittent Fever.
.532 Remittent Fever.
.54 Other Contagious and Infectious Diseases.
.541 Yellow Fever.
.542 Phthisis.
.543 Whooping-cough.
.544 Mumps.
.545 Puerperal Fever. See also 618.
.546 Leprosy.
.547 Syphilis.
.548 Gonorrhea.
.55 Parasitic Diseases.
.56 Diseases Communicated from Lower Animals.
.561 Anthrax. Charbon.
.562 Trichiniasis.
.563 Hydrophobia.
.564 Glanders.

.6 Disposal of the Dead.

See 393, Customs. Treatment of the dead.

.61 Burial.
.611 Earth-burial.
.612 Tomb-burial.
.613 Burials in Churches. Intra-mural.
.614 Use of Perishable Coffins.
.62 Cremation. Crematories.
.63 Transportation of the Dead.
.64 Embalming and Disinfection of the Dead. Use of Ice.
See 614.48, Disinfection; 615.777, Disinfectants
.65 Effect of Cemeteries on Health.
.651 By Water Pollution.
.652 " Air "

614.7 Hygiene of the Air and Ground. Nuisances.

See 613.1, Air, Hygiene; 613.6, Hygiene of employment; 628.5, Industrial sanitation.

.71 Air Pollution by Dust and Smoke.
.72 Air Pollution by Noxious Gases, Mineral Trades, Chemical Works.
.721 Carbon Compounds.
.722 Carbonic Oxide, Carbonic Acid. Carburetted Hydrogen.
.723 Illuminating Gases. Gas Works.
.724 Mineral Oil Refining.
.725 Sulphur Compounds.
.726 Chlorine "
.727 Nitrogen "
.728 Phosphorus "
.729 Other.
.73 Air Pollution by Vegetable Trades.
.731 Brewing.
.732 Distilling.
.733 Vinegar Making.
.734 Sugar Refining.
735 Charcoal Burning.
.736 Varnish Making.
.74 Air Pollution by Animal Trades.
.741 Slaughter Houses. Abattoirs. Fish.
.742 Rendering Works. Bone-boiling. Tripe and Gut Cleaning.
.743 Pork Packing. Lard Refining.
.744 Soap Making.
.745 Tanning.
.746 Glue Making.
.747 Lampblack.
.748 Commercial Fertilizers.
.75 Storage and Handling of Noxious and Offensive Materials.
.76 Other Air Pollutions. See 628, Sanitary engineering.
.761 Stables. Stable Manure.
.762 Hog Styes.
.763 Offal. Dead and Diseased Animals and Fish.
.764 Vaults. Cess-pools. Water Closets, Privies, Urinals, Night-soil.
.765 Sewers and Sewer Outlets. Sewer Gas.
.77 Conditions of Soil as Affecting Health. Topography. Sanitary Surveys.
.771 Analysis of Soils. See 543.7, Chemistry.
.772 Soil Moisture. Hygiene of Natural Water Courses and of Marshes.
See 613.14, Hygiene.
.773 Ground Atmosphere. See 613.14, Hygiene.
.774 Solid Constituents of Soil.
.775 Malarious Soils. See 613.14, Hygiene.
.776 Recovery of Soils from Pollution.
.78 Air and Ground in Towns.
.781 Laying Out of Towns and Streets.
.782 Subways and Elevated Ways. See 628.47, Sanitation of Towns.
.783 Parks. Air Spaces.
.784 Hight of Buildings and Proportion of Occupiable Area
See 614.85, Building laws.

614.8 Protection of Human Life from Accidents, Casualties, etc. See 613.66 Hygiene of employment.

.81 Drowning.
.811 Rescue of the Drowning.
.812 Resuscitation of the Drowned. First Help.
.82 Suffocation.
By gases, in vaults, mines, etc.; see 622.8, Mining dangers. By illuminating gases.
.83 Explosions.
.831 Manufacture and Storage of Explosives and Combustibles. See 66a, Chemical technology.
.832 Gunpowder.
.833 Dynamite, etc.
.834 Inspection of Kerosene, etc.
.835 " of Illuminating Gas.
.836 " " of Electric Apparatus.
.837 " of Steam Boilers.
.84 Fires.
.841 Fire Prevention.
.842 " Detection.
.843 " Extinction. See 352.3, Fire Department.
.844 Automatic.
.845 Chemical Extinguishers.
.846 Fire Engines. Water Towers. See 621.68, Pumping engines.
.847 " Escapes and Other Apparatus.
.848 " Exits, etc., from Public Buildings.
.85 Building Laws. Inspection of Buildings. See 614.784, Hight of Buildings.
.86 Protection of Travelers.
.861 Travel on Land.
.862 on Highways.
.863 " Railroads.
.864 Travel on Water.
.865 Light-houses, Buoys, etc.
.866 Pilots.
.867 Boats, Life-preservers, etc.
.868 Rescue of Shipwrecked. Life-saving Service.
.87 Exposure to Cold. Hospice of St. Bernard.
.88 Aid to Injured.
.881 Ambulance.
.882 Ambulance for Contagious Diseases. See also 614.14.
.883 "The Bed Wagon."

.9 Hygiene of Animals. Veterinary Sanitation.

.91 Infectious Diseases of Domestic Animals.
.92 Parasites of Animals. See 591.69, Economic zoölogy.
.93 Animal Diseases Communicable to Man. See also 614.56.
.94 Care and Housing of Animals.
.95 Feeding of Animals.
.96 Transportation of Animals.
.97 Methods of Slaughtering.
.971 Painless Extinction of Animal Life.

615 Materia Medica and Therapeutics.

.02, Compends; .05, Pharmaceutical Journals; .06, Pharmaceutical Societies; .07, Education, Schools of Pharmacy; .09, History.

.1 Materia Medica. Drugs.

For Examining boards, Laws, etc., see 614.24, Registration of Pharmacists. See also 614.35, Adulteration of drugs; 543.4, Chemical analysis.

.11 Pharmacopœias.
.12 Dispensatories.
.13 Formularies.
.14 Prescription writing. Posology.

.2 Inorganic Drugs.

Divided like 546. 615.218, Phosphorus; 615.258, Mercury; 615.272, Iron.

.3 Organic Drugs.

.31 Carbon Compounds. Divided chemically like 547.
.32 Vegetable Products. Divided botanically like 580.
.33 Vegetable Products. Divided by character.

1, Starches; 2, Sugar; 3, Glucosides; 4, Tannins; 5, Gums; 6, Drugs containing Alkaloids; 7, Bitters; 8, Organic Acids.

.34 Fixed Oils and Acids.
.35 Ferments. Diastase, Pepsin, etc.

.4 Practical Pharmacy.

.5 Therapeutics. Action of Medicines in General.

.51 Certainty of Medicines.
.52 Antagonism of Medicines.
.53 Law of Similars. Homœopathy.

Homœopathic works are classed with the subjects treated. This head is for Hahnemann's theory only.

.54 Influence of Age.

Infant therapeutics. Therapeutics of old age.

.55 Influence of Sex.
.56 Influence of Environment.
.57 Influence of Idiosyncracy.

.6 Administration of Medicines.

.61 By Stomach.
.62 " Rectum.
.63 " Subcutaneous tissue. Hypodermic medication.
.64 " Lungs. Inhalation. See also 612.385, Absorption.
.65 " Veins. Transfusion of blood.
.66 " Serous and Mucous Membranes. Peritoneum, Vagina, etc.

See also 612.387, Absorption.

.67 " Skin. Baths. See also 612.384, Absorption.

.7 Medicines grouped by Effects.

Treatises on specific drugs, Digitalis, Ergot, etc., are classed in the divisions of Materia Medica, 615.2–615.3; Iron, 615.272; Digitalis, 615.32381.

.71 Drugs acting on Circulatory System.
.711 Stimulants.

Alcohol, Ammonia, Digitalis, Coffee, Ergot.

.716 Depressants.

Aconite, Veratrum group, Nitrites.

.72 Drugs acting on Respiratory System.
.721 Expectorants.
.726 Errhines. Sneezing.

615.73 Drugs acting on Digestive System.
.731 Emetics.
Ipecac, Mustard, Metallic Salts, Apomorphine.
.732 Cathartics.
1, Laxatives; 2, Salines; 3, Purgatives; 4, Hydragogues; 5, Drastics; 6, Mercurials.
.733 Anthelmintics.
.734 Aids to Digestion.
1, Bitters, Tonics; 2, Ferments, Pepsin, Pancreatine, etc.; 3, Acids, Antacids.
.735 Demulcents, Emollients, etc.
Bismuth, Oxalate of Cerium, etc.
.74 Drugs acting on Glandular System.
.741 Sialagogues. (Saliva.)
.742 Cholagogues. (Bile.)
.743 Diaphoretics. (Perspiration.)
Pilocarpine, Heat, Exercise.
.75 Antipyretics. Antiperiodics.
Quinine, Salicylates, Coal-tar products, Kairin, Antipyrin, Antifebrin, Cold, Baths.
See also 613.41, Baths.
.76 Drugs acting on Genito-Urinary System.
.761 Diuretics.
Water, Citrates, Acetates. Digitalis, Caffeine, Copaiba.
.766 Uterines. Oxytocics.
Viburnum, Ergot, etc.
.77 External Agencies.
.771 Irritating.
.772 Astringents.
.773 Rubefacients.
.774 Epispastics. Blisters.
.775 Escharotics. Caustic potassa.
.776 Protective. Emollient.
Fats, Oils, Powders, Starch, Bismuth, Oxide of Zinc.
.777 Deodorants. Disinfectants. See 614.48, Disinfection; 614.64, Disinfection of dead.
.778 Antiseptics. Germicides.
.78 Drugs acting on Nervous System. See also 615.95, Neurotic Poisons.
.781 Anæsthetics. Chloroform, Ether.
.782 Hypnotics. Chloral, Bromides.
.783 Analgesics. Opium.
.784 Mydriatics. Belladonna.
.785 Excitants. Strychnine.
.786 Depressants. Conium.
.788
.789 Other Drugs.
Camphor, Valerian, Asafetida.
.79 Mineral Waters. See also 613.38, Hygiene; 553.7, Occurrence in nature.

.8 Other Remedies.

.81 Mechanical Remedies.
.811 Blood-letting. Venesection. Cupping.
.812 Setons and Issues.
.813 Bandages. Ligatures.
.814 Acupuncture.
.815 Pneumatic Aspiration.
.82 Massage. See also 613.71, Gymnastics.

615.83 Imponderable Remedies.
.831 Light. Blue glass.
832 Temperature. Heat. Cold.
.833 Moisture.
.834 Climate. See also 613.1, Hygiene.
.835 Altitude.
.836 Pneumatic Differentiation.
.837 Music.
.84 Electricity. Electro Therapeutics. See 537.87.
.85 Cures.
.851 Mind Cure. Influence of mind on body. See also 130, Mind and Body.
.852 Faith Cure. See 265.8, Religion.
.853 Water Cure.
.854 Food Cures. Grapes, Milk, Beef, etc.
.855 Thomsonianism. Herb Doctors.
.856 Perkinism. Metallic Tractors.
.86
.87
.88 **Patent Medicines.**
.89 Ancient and Mediæval Remedies.
Including those of modern uncivilized peoples.

.9 Toxicology. Poisons.

For detection of poisons, see 543.5; Sale of poisons, 614.28; Poisoned wounds, 617.148.

.91 Irritant Poisons.
.92 Mineral Irritants.
.921 Acid Poisons.
.922 Alkaline Poisons.
.923 Non-metallic Poisons.
.924 Phosphorus. See also 615.218, Drugs.
.925 Metallic Poisons.
.926 Arsenic. See also 615.219, Drugs.
.927 Mercury. See also 615.258, Drugs.
.928 Lead. See also 615.251, Drugs.
.929 Copper. See also 615.256, Drugs.
.93 Vegetable Irritants.
Hellebore, Aloes, Croton oil, etc.
.94 Animal Poisons.
Cantharides, Diseased meat, Ptomaines, Tyrotoxicon, etc.
.95 Neurotic Poisons. See also 615.78, Drugs acting on nervous system.
.96 Cerebral or Narcotic Poisons. Carbonic oxide and acid.
.961 Opium.
.962 Prussic Acid.
.963 Cyanides.
.964 Alcohol.
.965 Ether.
.966 Chloroform.
.967 Chloral Hydrate.
.97 Spinal Poisons.
Nux vomica, Strychnia.
.98 Cerebrospinal Poisons.
Aconite, Belladonna, Lobelia.
.99 Cerebrocardiac Poisons.
Digitalis, Tobacco.

616 Pathology. Diseases. Treatment.

May be subdivided by a o like 610, if wished. Use 616.01 for Etiology, Germ theory, Classification of diseases. Use 616.07 for Diagnosis, Study of disease, and subdivide it as follows: 1, Pulse; 2, Tongue; 3, Eye, Skin, etc.; 4, Auscultation, Percussion; 5, Thermometry; 6, Chemistry, Urine analysis; 7, Microscopy; 8, Pathological anatomy; 9, Post-mortem examination.

.1 Diseases of Circulatory System.

.11 Membranes of the Heart.
.12 Heart. Angina Pectoris.
.13 Arteries.
.14 Veins.
.15 Blood.

.2 Diseases of Respiratory System.

01, Croup; 02, Hay Asthma, Hay Fever; 03, Influenza, Epidemic Catarrh; 04, Whooping Cough, see also 614.543; 05, Coryza, Catarrh; 06, Asphyxia.

.21 Nose. Naso-pharyngeal Space.
.22 Larynx.
.23 Trachæa. Bronchi. Bronchitis. Asthma.
.24 Lungs.

1, Pneumonia, Lung Fever; 2, Congestion; 3, Hemorrhage; 4, Abscess; 5, Gangrene; 6, Phthisis, Consumption, see also 614.542; 7, Embolism and Aneurism of Pulmonary Artery; 8, Emphysema; 9, Collapse.

.25 Pleura. Pleurisy.

.3 Diseases of the Digestive System.

For diseases of teeth see 617.6.

.31 Mouth. Tongue. Fauces.— Sore Throat. Quinsy. Mumps. See also 614.544.
.32 Pharynx. Œsophagus.
.33 Stomach.— Gastritis. Dyspepsia. Vomiting.
.34 Intestines.— Hernia. Diarrhea. Constipation. Colic.
.35 Rectum. Anus.— Piles.
.36 Liver. Gall-Bladder.— Jaundice.
.37 Pancreas.
.38 Peritoneum. Omentum. Mesentery.— Peritonitis.
.39 Dietetic Diseases.
Surfeit. Starvation. Scurvy. Dyspepsia.

.4 Diseases of the Lymphatic System.

.41 Spleen.
.42 Lymphatics. Thoracic Duct.
.43 Thymus.
.44 Thyroid Body. Goître.
.45 Suprarenal bodies.

.5 Dermatology. Skin Diseases.

.51 Inflammatory Affections.
Diffuse, Papular, Scaly. Nettlerash. Hives.
52 Catarrhal, Vesicular, Pustular. Eczema. Shingles. See also 614.561.
53 Disorders of Sebaceous Glands.
54 Hypertrophies. Atrophies.
Corns. Warts. White hair. Baldness.
.55 New Formations. Pigmentary Changes.
Albinism. Freckles.
.56 Disorders of Sweat Glands.
.57 Parasitic Diseases. See 616.96, Parasitic Diseases.
.58 Other Skin Diseases.
Chilblain. Frostbite. Chaps.

616.6 Diseases of Genito-Urinary System.

For Diseases of women, see 618.

.61 Kidneys. Ducts.— Bright's Disease.

.62 Bladder.— Calculus.

.63 Urinary Disorders.— Diabetes.

.64 Male Urethra.

.65 Prostate.

.66 Penis.

.67 Scrotum.

.68 Spermatic cord. Testes.

.69 Functional Diseases of Male Generative Organs.— Spermatorrhœa. Impotence.

.7 Diseases of the Organs of Locomotion.

.71 Bones (except spine).

.72 Joints (except spine).

.73 Spine.— Curvature.

.74 Muscles.

.75 Tendons. Fasciæ.

.76 Bursæ. Sheaths of Tendons.

.77 Connective Tissue.

.8 Diseases of Nervous System.

.81 Diseases relating to Cerebro-Spinal Circulation. Apoplexy.

.82 Diseases relating to Cerebro-Spinal Meninges.

.83 Structural Diseases of Brain and Cord.

.84 Functional Diseases of Brain and Cord.

1, Vertigo; 2, Paralysis; 3, Neurasthenia; 4, Spinal Irritation: 5, Eclampsia, Convulsions.

For Insanity see 132.1.

.85 Neuroses.

1, Chorea, St. Vitus's Dance; 2, Hysteria, see 135 Somnambulism, 132.4 Catalepsy, 132.3 Hypochondria; 3, Epilepsy; 4, Tetanus, Lockjaw; 5, Aphasia; 6, Anæsthesia, Hyperæsthesia; 7, Megrim, Sick-headache.

.86 Neuroses due to special Poisons.

1, Alcoholism, see also Dipsomania, 132.7; 2, Metallic Tremor.

.87 Diseases of Nerves.— Neuralgia. Cramp.

.88 Diseases of Sympathetic System.

.9 General Diseases.

.91 Infectious Diseases.

1, Eruptive Fevers; 2, Small Pox, see also 614.471 and 614.521; 3, Cow Pox; 4, Chicken Pox, see also 614.525; 5, Measles, see also 614.523; 6, Rubeola, see also 614.524; 7, Scarlet Fever, Scarlatina, see also 614.522.

.92 Other Fevers. General Works on Fevers. See 612.57, Animal Heat.

1, Dengue, Break-bone Fever; 2, Typhus, see also 614.526; 3, Plague; 4, Relapsing Fever, Famine Fever; 5, Cerebro-spinal Fever; 6, Simple Continued Fever; 7, Enteric Fever, Typhoid Fever, see also 614.511; 8, Yellow Fever, see also 614.476 & 614.541.

.93 Diphtheria. Cholera. Malarial Fever.

1, Diphtheria, see also 614.512; 2, Asiatic Cholera, see also 614.475 and 614.514; 3, Sporadic Cholera; 4, Epidemic Diarrhœa, see also 614.517; 5, Dysentery, see also 614.516; 6, Malarial Fever, see also 614.53.

.94 Septic Diseases.

1, Phagedæna; 2, Erysipelas; 3, Pyæmia; 4, Septicæmia.

.95 Venereal Diseases. Hydrophobia, etc.

1, Syphilis, see also 614.547; 2, Gonorrhœa, see also 614.548; 3, Hydrophobia, see also 614.477 and 614.563; 4, Glanders, see also 614.564; 5, Horse Pox: 6, Splenic Fever.

616.96 Parasitic Diseases. See also 614.55.
.961 Animal Parasites. See 591.69, Economic Zoölogy; 614.92, Parasites of animals.
.962 Entozoa.
.963 Trematoda. Flukes.
.964 Cestoda. Tape-worms.
.965 Nematoda. Round worms, Thread worms, Trichinæ. See also 614.562.
.966 Acanthocephala. Thorn-headed worms.
.967 Insecta parasitica. Maggots.
.968 Ectozoa.
1, Insecta parasitica, Musquitoes, Gnats, Bed bugs, Fleas, Lice; 5, Arachnida parasitica, Mites, Ticks; 8, Suctoria parasitica, Leeches.
.969 Vegetable Parasites. See 581.69, Economic Botany.
.97 Effects of Poisons. See 615.9, Toxicology.
.98 Effects of Injuries and Climate.
1, Presence of foreign bodies; 2, Mechanical injuries; 3, Excessive Exertion and Strain; 4, Excessive Venery; 5, Privation; 6, Exhaustion; 7, Chemical agents; 8, Climate.
.99 Other General Diseases.
.991 Rheumatism, Rheumatic Fever. Gout.
.992 Tumors.
.993 Non-malignant. Cysts. Wens.
.994 Malignant. Cancer.
.995 Tubercle.
.996 Scrofula. Rickets.
.997 Myxœdema. Cretinism.
.998 Leprosy. See also 614.546.

617 Surgery.

May be subdivided by a o like 610, if wished.

.1 Injuries.

.11 Burns and Scalds.
.12 Lightning and Electric Shock.
.13 Contusions and Abrasions.
.14 Wounds.
1, Incised; 2, Contused; 3, Lacerated; 4, Punctured; 5, Gun-shot, see 617.99 Military surgery; 6, With lodgment of foreign bodies; 7, With complete separation of parts; 8, Poisoned, see 615.9 Toxicology.
.15 Fractures.
.16 Dislocations.
.17 Sprains.
.18 Asphyxia.

.2 Results of Injuries.

Constitutional effects and other complications. See also 616.94, Septic diseases.
.21 Shock.
.22 Inflammation.
.23 Abscess. Sinus. Fistula.
.24 Ulcers. Sores.
.25 Mortification. Gangrene.
.26 Traumatic Fever.
.27 Tetanus. See also 616.854.

617.3 Orthopædic Surgery. Deformities.

For convenience the whole subject of deformities is classed here, though many of them have no surgical treatment. See also 573.8, Dwarfs and Giants; 573.9, Monstrosities; 613.91 Congenital defects.

.31 Incomplete Development or Growth.
Divided like 611, Anatomy.

.32 Incomplete Coalescence of Parts. Harelip.

.33 Coalescence of Parts.

.34 Extension of Commissure (Apparent Duplication).

.35 Coalescence of Fœtuses. Siamese Twins.

.36 Supernumary Parts or Organs. Extra Fingers or Toes.

.37 Disproportionate Growth of Parts.

.38 Transposition or Displacement of Parts.

.39 Congenital Distortions, including Talipes, Club Foot.

.4 Surgical Operations.

.41 Circulatory System.

.42 Respiratory System.

.43 Digestive System.

.44 Glandular and Lymphatic System.

.45

.46 Genito-Urinary System.

.47 Motor and Integumentary System.

.48 Nervous System.

.5 Regional Surgery.

.51 Head. Trephining.

.52 Face. Mouth. See 617.6, Dentistry; 617.7, Eye; 617.8, Ear.

.53 Neck. Throat.

.54 Chest.

.55 Abdomen.

.56 Pelvis.

.57 Upper Extremities. Artificial Arms, Hands, etc.

.58 Lower Extremities. Artificial Legs, Feet, etc.

.6 Dentistry. Diseases of Teeth.

.61 Diseases of Dental Pulp.

.62 Diseases of Dentine and Cementum.

.63 Diseases of Dental Periosteum.

.64 Malposition and Malformation of Teeth.

.65 Odontalgia. Toothache.

.66 Extraction of Teeth.

.67 Stopping Teeth.

.68 Transplanting Teeth.

.69 Artificial Teeth.

.7 Ophthalmic Surgery. Diseases of the Eye.

.71 Conjunctiva. Cornea. Sclerotic. Ophthalmia.

.72 Iris. Choroid. Ciliary Body.

.73 Optic Nerve. Retina.

.74 Lens and its Capsule. Vitreous Humor. Affections of the Globe. Cataract.

.75 Disorders of Vision.
Myopia, Shortsightedness, Astigmatism, Color-blindness.

.76 Muscular Apparatus. Lachrymal Apparatus.
Strabismus, Squint.

.77 Eyelids.

.78 Orbit and Neighboring Parts.

.79 Artificial Eyes.

617.8 **Diseases of the Ear.**

.81 Affections of External Ear.
82 Auricle.
.83 Auditory Canal.
.84 Affections of Middle Ear.
.85 Membrana Tympani.
.86 Eustachian Tubes.
.87 Mastoid Cells.
.88 Affections of Internal Ear.
.89

.9 **Operative Surgery.**
See 615.781, Anæsthetics.

.91 Armamentaria. Surgical Instruments.
.92 Orthopædic Appliances. Splints, Trusses, etc.
See 617.3, Orthopædic surgery.
.93 Surgical Dressings.
.94 Amputation. Resection.
.95 Plastic Surgery.
.96
.97
.98
.99 Military Surgery.

618 Diseases of Women and Children. Obstetrics.

.1 **Gynæcology. Diseases of Women.**

.11 Ovary.
.12 Fallopian Tube.
.13 Periüterine Diseases.
.14 Uterus and Cervix.
.15 Vagina.
.16 Vulva.
.17 Functional and Symptomatic Disorders.
Diseases of Menstruation. Leucorrhœa. Sterility.
.18
.19 Diseases of Breast.

.2 Obstetrics.

.21 **Pregnancy. Physiology.**

.22 Diagnosis. Signs of Pregnancy.
.23 Duration.
.24 Hygiene. Management.
.25 Multiple Pregnancy. Twins, etc.

.3 **Pathology of Pregnancy.**
Diseases of Pregnancy and their Treatment.

.31 Ectopic Gestation. Extra-uterine Pregnancy
.32 Pathology of Ovum.
.33 Death and Retention of Fœtus.
.34 Pathology of Fœtal Appendages.
.35 Decidua.
.36 Placenta.
.37 Amnion.
.38 Umbilical Cord.
.39 Abortion. Miscarriage. Stillbirth. Molar Pregnancy.
See 173.4, Infanticide; 340.6, Medical jurisprudence; 343, Criminal law.

618.4 **Parturition. Labor. Physiology.**

.41 Mechanism of Labor.
.42 Presentations. Positions.
.43 Clinical Course and Phenomena.
.44 Conduct of Normal Labor. Management.

.5 **Pathology of Labor.**

Abnormal Labor from Faults
.51 of Powers. Anomalies of Expellent Forces.
.52 of Passages. Mechanical Obstacles to Expulsion of Fœtus.
.53 of Child. Abnormalities of Fœtus. See 617.3, Deformities. Complications.
.54 Hemorrhage.
.55 Rupture or Laceration of Genital Tract.
.56 Retention of Placenta.
.57 Inversion of Uterus.
.58 Prolapsus Funis.
.59 Other Complications.

.6 **Puerperal State. Physiology.**

Management, including care of child.

.7 **Pathology of Puerperal State. Puerperal Diseases.**

.71 Diseases of Lactation. Milk Fever. Mastitis, etc.
.72 Puerperal Fever. See 614.545, Public health.
.73 Metritis. Peritonitis, see also 616.38. Cellulitis.
.74 Septicæmia, see also 616.944. Pyæmia, see also 616.943.
.75 Convulsions. See 616.845, Eclampsia.
.76 Puerperal Mania. See 132.1, Insanity.
.77 Phlebitis. Venous Thrombosis. Phlegmasia Dolens. See 616.14, Diseases of veins.
.78 Other Puerperal Affections.
.79 Sudden Death after Delivery.

.8 **Obstetric Operations.**

.81 Application of Lever and Forceps.
.82 Version.
.83 Embryotomy.
.84 Dilatation of Os and Cervix.
.85 Symphyseotomy.
.86 Cæsarian Section.
.87 Removal of Placenta.
.88 Induction of Labor. Removal of Ovum.
.89 Intra-uterine Injections. Antiseptics in Midwifery.

.9 **Pædiatrics. Diseases of Children.**

619 Comparative Medicine. Veterinary.

.1 **Horses.**
.2 **Cattle.**
.3 **Sheep, Goats.**
.4 **Swine.**
.5 **Poultry.**
.6 **Birds.**
.7 **Dogs.**
.8 **Cats.**
.9 **Other.**

620 Engineering.

.01, Statistics; .02, Quantities and Cost; .03, Contracts and Specifications; .04, Designs and Drawings; .05, Executive; .06, Working and Maintenance; .07, Laws; .08, Patents; .09, Reports.
.1, Strength of Materials; .2, Compends; .3, Dictionaries, Cyclopedias; .4, Essays; .5, Periodicals; .6, Societies; .7, Study and Teaching; .8, Tables and Calculations; .9, History of Engineering.

621 Mechanical Engineering.

May be subdivided like 620 and 620.0.

.1 Steam Engineering. See 536.81

.11 Mechanism of Steam Engine.
.12 Marine Engines and Ship Propulsion. See 699.
.13 Locomotive Engines.
.14 Traction Engines.
.15 Portable Engines.
.16 Stationary Engines.
.17
.18 Steam Generation. Boilers. Furnaces.
.19 Steam Heating. See 697, 536.83, 628.8, 644.

.2 Water Engines or Motors.

.21 Water Wheels. See 532.84.
.22 Overshot and Breast Wheels.
.23 Undershot Wheels.
.24 Turbines.
.25 Water Pressure Engines. See 532.82.
.26 Hydraulic Presses. See 532.81.
.27 Hydraulic Ram. See 532.83.
.28
.29 Mill Dams. Sluices, etc. See 627.8.

.3 Electrical Engineering.

.31 Dynamo Machines. See 537.83.
.32 Electric Lighting. See 537.83.
.33 Electric Railways.
.34 Transmission of Electric Force. See 537.84.
.35 Storage of Electric Force. See 537.84.

.4 Air and Gas Engines and other Motors.

.41 Caloric Engines.
.42 Compressed Air Engines.
.43 Ignited Gas Engines. See 536.82.
.44 Binary Vapor Engines.
.45 Windmills.
.46 Animal Motors. Tread Mills.
.47 Solar Engines.

.5 Air Compressors. Ice Machines.

.6 Blowing and Pumping Engines.

.61 Piston Blowers.
.62 Rotary Blowers. Fans.
.63 Centrifugal Blowers.
.64 Steam Pumps and Pumping Engines.
.65 Piston Pumps.
.66 Rotary Pumps.
.67 Centrifugal Pumps.
.68 Fire Engines. See 352.3, Fire Dep't; 614.84, Fires.
.69

621.7 **Mills and Manufacturing Works.**

.8 **Mill Work and Mechanism of Transmission.**

.81 Principles of Mechanism. See 531.8.
.82 Journals, Shafting, etc.
.83 Toothed Wheels.
.84 Valve Motions and Gears.
.85 Machinery and Mill Gearing.
.86 Hoisting and Conveying Machinery.
.87 Cranes and Elevators.
.88
.89 Lubricants. Friction. See also 531.4, Mechanics.

.9 **Machine Tools.**

.91 Planing Machines.
.92 Grinding and Filing.
.93 Cutting and Sawing.
.94 Turning and Milling. Lathes.
.95 Perforating. Drills.
.96 Punching and Shearing.
.97 Hammers. Riveting.
.98 Bending. Straightening. Shaping.
.99 Fastening. Bolts. Rivets. Screws.

622 Mining Engineering. See also 338.4, Mining products.

May be subdivided like 620 and 620.0; e. g. Societies, 622.06; Reports, 622.009

.1 **Exploration and Prospecting.**

.11 Theory Applied Geology, etc.
.12 Prospecting. Practical Methods.
Including Divining Rods.
.13 Mineral Surveys.
.14 Mine Surveying.
.15 Magnetic Surveys.
.16 Theory of Faults. See 551.87 and 553.19.
.17
.18
.19 Mining Prospectuses. See 553

.2 **Practical Mining.**

.21 Excavation.
.22 Quarrying.
.23 Drilling and Blasting.
.24 Deep Boring.
.25 Shaft Sinking.
.26 Tunneling and Drifting.
.27 Stoping.
.28 Timbering. Masonry lining. See also 622.50.

.3 **Working of Mines. Exploitation.**

.31 Open Workings.
.32 Hydraulic Mining and Sluicing.
.33 Coal Mining. See 553.2.
.34 Metal Mining. See 553.3 and .4.
.35 Working Thick Deposits.
.36 Salt Mining. See 553.63.

622.4 Ventilation and Lighting of Mines.

.41 Theory. Gases met with, etc.
.42 Natural Ventilation.
.43 Furnaces. Steam Jets, etc.
.44 Fans. See 621.62.
.45 Airways. Stoppings. Regulators.
.46 Measurement of Ventilation.
.47 Lighting. Safety Lamps, etc.

.5 Drainage.

.51 Theory of Infiltration of Water.
.52 Natural Drainage.
.53 Cornish Pumps. See 621.64
.54 Steam Pumps. See 621.64.
.55 Hoisting of Water.
.56 Dams and Watertight Linings. See also 622.28, Timbering.
.57 Acid Waters.

.6 Extraction. Hoisting and Transportation.

.61 Handling Mineral in Working Place.
.62 Underground Roads.
.63 Mine Cars. Trams, etc.
.64 Gravity Roads and Planes.
.65 Tramming and Animal Haulage. See 625.7.
.66 Mechanical Haulage.
.67 Hoisting Engines. Drums. Ropes.
.68 Cages. Skips. Buckets.
.69 Surface Transportation.
Including Mineral Roads, Wire Rope-ways, Transhipment, Loading and Unloading, etc.

.7 Mechanical Preparation. Ore Dressing.

.71 Theory. Preliminary Operations.
.72 Hand Dressing.
.73 Crushing. Stamping Engine.
.74 Screening.
.75 Jigging. Ore Concentrators.
.76 Slime Treatment.
.77 Magnetic Separation.
.78 Coal Washing.
.79 Dressing Works.

.8 Dangers and Accidents. See also 613.6, Hygiene; 331.82, Laboring classes.

.81 Explosions of Fire-Damp.
.82 Mine Fires.
.83 Crushing and Fall of Ground
.84 Flooding of Mines.
.85 Accidents to Miners.
.86 Rescue and Relief.
.87
.88
.89

623 Military and Naval Engineering.

For Military and Naval Science, Maneuvers, Strategy and Tactics, see 355 to 359.

.1 **Fortifications. Field and Permanent.**

.2 **Siege Operations; Mines, etc.**

.3 **Defensive Operations.**

.4 **Ordnance and Projectiles. Arsenals.**

.5 **Gunnery.**

.6 **Military Roads and Bridges.**

.7 **Military Signals; Telegraph, Ballooning, etc.**

.8 **Naval Architecture.** See also 699, Ship building.

.9 **Armored Vessels, Torpedoes, etc.**

624 Bridges and Roofs.

.1 **Piers. Foundations, etc.**

.2 **Girders. Stresses and Strains.**

.3 **Trussed Bridges.**

.4 **Tubular Bridges.**

.5 **Suspension Bridges.**

.6 **Arched Bridges.**

.7 **Compound Structures.**

.8 **Movable Bridges.**

.9 **Roofs.**

625 Railroad and Road Engineering.

See also 624, Bridges; 622.2, Tunnels; 622.26, Excavations, etc.; 621.33. **Electric railways.**

.1 **Route. Road Bed, Rails, Ties, etc.**

.2 **Trains. Brakes, Couplings, Wheels, etc.** See 621.13, **Locomotives.**

.3 **Inclines and Mountain Railways.**

.4 **Elevated and Underground Roads. Subways.** See also 614.98.

.5 **Cable Roads.**

.6 **Horse Cars. Tramways.**

.7 **Roads. Highways.**

.8 **Pavements.** See also 628.47, Sanitation of towns.

.9 **Ship Railways.**

626 Canal Engineering.

.1 **Route.**

.2 **Water Supply.**

.3 **Size and Shape.**

.4 **Locks.**

.5 **Lifts and Inclined Planes.**

.6 **Canal Boats. Size, Shape, etc.** See 699. Shipbuilding.

.7 **Towing. Power, etc.**

.8 **Irrigation Canals and other Irrigation Works.**

.9 **Ship Canals.**

627 River, Harbor, and General Hydraulic Engineering

.1 **Rivers. Force of Water. Discharge. Bars.**

.2 **Harbors. Breakwaters.**

3 **Docks. Piers. Quays. Shipping Facilities.**

.4 **Dikes and Levees. Embankments.**

.5 **Other Protection and Reclamation of Land from Tides and Waves. Drainage.** For Agricultural Drainage see 631.

.6 **Jetties.**

.7 **Dredging. Dredging Machinery.**

.8 **Dams.**

.9 **Lighthouses. Buoys.**

628 Sanitary Engineering. Water-works.

.01, Theories, Utility; .02, Compends; .03, Dictionaries; .04, Essays; .05, Periodicals; .06, Societies; .07, Study and Teaching; .08, Polygraphy: .09, History and Description of Sanitation and General Sanitary Works, divided geographically like 930–999.

.1 **Water Supply of Towns.** For isolated supply see 628.7.

.11, Sources of Water Supply; Lakes, Rivers, Springs, Wells, and Pumping. .12, Pumping vs. Gravitation Systems; Pump-well; Stand-pipe; High Service; Holly System. 13, Storage and Service Reservoirs. .14, Conduits; Aqueducts; Tunnels (see 622). .15, Mains and Service Pipes; Freezing; Iron; Lead. .16, Impurities and their Removal; Filter-basins, etc. .17, Public (Sprinkling, Fire, Flushing), Manufacturing, and Domestic Use and Waste; Meters.

.2 **Sewerage Works.**

.21 Sewerage Systems.

1, Combined System; 2, Separate System; 3, Liernur System; 4, Shone System; 5, Berlier System; 6, Other Systems; 7, The Outfall; 8, Depth and Allignment; 9, Grade and Velocity.

628.2 Shape and Size of Sewers.

1, Storm-water Flow; 2, Ordinary Flow; 3, Circular Section; 4, Ordinary Egg-Shape; 5, Other Egg-Shapes; 6, Other Forms; 7, ; 8, Formulas for Size.

.23 Ventilation of Sewers.

1, Openings in Streets; 2, Lamp Posts; 3, Flues in Houses; 4, Pipes on Houses; 5, House Drains; 6, Chimneys and Furnaces; 7, Charcoal and Chemicals to deodorize sewerage gas; 8, Special Mechanism; 9, Special Construction.

.24 Design and Construction of Sewers.

.25 Sewer Appurtenances.

1, Junctions; 2, House Connections; 3, Manholes and Lampholes; 4, Flushing Shafts and Fixtures; 5, Catch Basins and Inlets; 6, Traps and Ventilators; 7, Valves and Penstocks; 8, Overflows and Regulators; 9, Miscellaneous.

.26 River Crossings.

.27 Intercepting and Outfall Sewers.

.28 Reservoirs and Tank Sewers.

.29 Pumping Stations.

.3 Disposal of Sewage.

.31 Physical Properties of Sewage.

.32 Deodorization and Disinfection of solids and liquids. See 628.237.

.33 Subsidence.

.34 Precipitation.

1, Precipitation Tanks; 2, Mixing Machinery; 3, Filter Presses; 4, Precipitation by Salts of Alumina; 5, By Lime; 6, By Salts of Iron; 7, By Other Methods; 8, Disposal of Sludge; 9, Miscellaneous.

.35 Filtration.

.36 Irrigation.

1, Broad Irrigation; 2, Ridge and Furrow Irrigation; 3, Flat Bed Irrigation; 4, Sub-Surface Irrigation; 5, Intermittent Downward Filtration; 6, Carriers and Appurtenances; 7, Drains and Drainage of Sewage Farms; 8, Filtration Areas; 9, Miscellaneous.

.37 Sewage Farming. Required modifications of ordinary methods.

38 Sewage Manures.

.39 Discharge into Sea, etc.

.4 Sanitation of Towns.

.41 Middens and Privies.

.42 Pail Systems.

.43 Earth Closet Systems.

.44 Domestic Ashes and Garbage.

.45 Public Urinals and Latrines.

.46 Street Cleaning and Sprinkling.

.47 Pavements and Subways.

.48 Trees in Streets and Squares.

.49 Manufacture of Fertilizers from Town Wastes.

.5 Industrial Sanitation.

.51 Factories and Trades.

1, Prevention of Dust and Fumes; 2, Protection of Throat and Eyes; 3, Protection against Infection; 9, Special Trades.

.52 Effluvium Nuisances.

1, Situation of Works; 2, Use of High Chimneys; 3, Condensation in Water; 4, Combustion in Furnaces; 9, Special Trades.

.53 Smoke Nuisance.

8, From Steam Generators; 9, From Special Industries.

.54 Disposal of Solid and Liquid Wastes.

1, Discharge into Streams; 2, Absorbing Wells and Burial; 3, Clarification by Subsidence; 4, Chemical Treatment; 5, Filtration; 6, Purification by the Soil; 9, Special Methods and Special Trades.

.6 House Drainage.

.7 Rural Water Supply. Villages and Country houses.

.8 Ventilation and Heating. See 697, 644, 628.23, 622.4, 621.19.

This head is chiefly for Ventilation. Most matter on Heating goes in 697.

.9 Lighting. See 621.32, 537.83, 644, 665.

629 Other Branches of Engineering.

630 Agriculture.

1, ; 2, Compends; 3, Dictionaries, cyclopedias; 4, Essays; 5, Periodicals, 6, Societies; 7, Study and teaching; 8, ; 9, History, divided like 930–99.

631 Soil. Fertilizers. Drainage.

632 Pests. Hindrances. Blights. Insects.

633 Grains. Grasses. Fibres. Tea. Tobacco, etc.

634 Fruits. Orchards. Vineyards.
.9, Forestry. See also 715, Landscape gardening.

635 Kitchen garden. See 716 for Flower gardens.

636 Domestic animals. See also 619, Veterinary medicine; 599.7, Zoölogy.

.1 **Horses. Asses. Mules.** See 682.1, Horseshoeing.
.2 **Cattle.**
.3 **Sheep. Goats.**
.4 **Swine.**
.5 **Poultry.**
.6 **Birds.**
.7 **Dogs.**
.8 **Cats.**
.9 **Other. Camels, etc.**

637 Dairy. Milk. Butter. Cheese.

638 Bees. Silkworms.

639 Fishing. Trapping.

640 Domestic economy. Hotels. Flats.

See also 334.4, Coöperative housekeeping; 331.83, Laboring classes.

641 Cookery. Gastronomy.

642 Confectionery. Ices.

643 Food. Dining. Carving.
See also 613.2–.3, Hygiene; 663, Beverages; 394.1, Customs.

644 Fuel. Lights. See also 697, 665, 621.32, 621.19.

645 Furniture. Carpets. Upholstery. Plate.

646 Clothing. Toilet. Cosmetics.
See also 613.4, Hygiene; 391, Costume and care of person.

647 Servants. Training. Duties. Wages.

648 Laundry.

649 Nursery. Children. Sick-room.

650 Communication. Commerce.

651 Office equipment and methods.

652 Writing. Materials, typewriters, cipher.

653 Abbreviations. Shorthand.

.01 Theories. Available material. Shading. Position. Detached vowels.

.02 Practicability for general use. Teaching in public schools.

For methods see 653.07.

.03 Speed. See also 653.046, Verbatim reporting.

.04 Applications.

.041, Personal notes and records; .042, Correspondence; .043, Amanuensis work; .044, Newspaper work; .045, Shorthand job offices; .046, Official reporting, court and legislative; .047,

.05 Periodicals. If strictly limited to one system, class with that system.

.06 Societies. " " " "

.07 Education. Shorthand schools. Teaching, privately or in classes.

.08

.09 History. Divided by countries like 930–999.

.1 **Abbreviations. Omissions of silent letters, vowels, etc.**

Covers desirability, dangers, lists, and all general matter about use of recognized abbreviations. See also 421.4, Phonetic spelling; 421.8. Abbreviations.

.2 **Abbreviation systems.**

Brief longhand. Fonoscribing, etc. For telegraphic codes, see 652.

Covers only systems of quick writing with common characters.

.3 **Stenographies.**

Includes both discussions and systems with arbitrary signs and new characters.

.31, Before 1837; .32, Gurney; .33, Gabelsberger; .34, Stolze (Dettmann); .35, Taylor (Baker; Harding; Odell); .36, Cross; .37, Scovil; 8, Duployé (Pernin, Sloan).

.4 **Phonetic shorthand. Phonographies.**

Limited to phonetic stenography, i. e. brief sound writing. .5 and .6 include only systems using Izaac Pitman's consonants.

.41, Before Pitman (1837); .42, Bell; .43, Jones; .44, Williams; .45,

.5 **Pitman old vowel scale systems.**

.51, Benn Pitman: .52, Graham; .53, Scott-Brown; .54, Marsh; .55, Thornton; .56, Haven; .57, Allen; .58,

.6 **Pitman new vowel scale systems.**

.61, Izaac Pitman; .62, Munson; .63, Longley; .64, Burnz; .65,

.7 **Connected vowel systems.**

.71, Lindsley's takigrafy; .72, Everett; .73, Barrows; .74, Bishop.

.8

.9 **Foreign systems.** Divided by languages like 400.

The heads above are for English systems or (as in .33) foreign systems adapted to and used for English. Other systems are grouped here by languages, but history of shorthand in special countries is in 653.09.

654 Telegraph. Cables. Signals. For codes see 652.

.1 **Telegraphic instruments.**

.2 **Duplex, quadruplex, multiplex telegraphs, etc.**

.3 **Printing, perforating, dial telegraphs, etc.**

.4 **Telegraphic construction; poles, wires, conduits, etc.**

.5 **Cables. Submarine.**

.6 **Telephones.**

.7 **Alarms; burglar, fire. Annunciators, bells.**

.8 **Speaking tubes. Pneumatic tubes.**

.9 **Signals.** See also 534.83, Navigation signals; 623.7, Military signals.

655 Printing. Publishing. Copyright.

.1 History of printing.

.11 Origin. Invention.
.111 Claims of Gutenberg, Mainz.
.112 Claims of Coster, Haarlem.
.12 Celebrations, anniversaries.
1, 1640; 2, 1740; 3, 1823; 4, 1840.
.13–.19 Printing in special countries. Divided like 930–999.

.2 Type and Type Setting.

.21 Type founding. Tools of the art.
.22 Electro and stereotyping, etc. Patent blocks.
For Photo-electrotyping, see 777.
.23 Patent types. Logotypes, etc.
.24 Faces; sizes; styles. Specimen books.
.25 Type setting. Composition. Proof reading.
.26 Artistic composition. Taste. Display. Job work.
.27 Imposition. Locking up, etc.
.28 Type setting and distributing machines. Linotype.

.3 Practical printing. For Calico printing, see 667.2.

.31 Printing presses.
.32 Press work. Making ready. Colors. Cuts.
.33 Drying. Hydraulic pressing, etc.
.34
.35 Stamps, stencils, etc.
.36 Machines. Paging, numbering, addressing, etc.
See also 654.3, Printing telegraphs; 651, Type writers.
.37 Nature printing. From plants, etc.
.38 Printing for blind. See also 371.91, Education of blind.

.4 History of publishing and bookselling.

Divided by countries like 930–999.

.5 Publishing and bookselling.

.51 Selection of mss.
For Freedom of press *vs.* censorship, see 323; Morals of press, 179.1.
.52 Relations to authors. Copyright payments. Prices of mss. bought.
.53 Size, paper, type, illustrations, binding.
.54 Cost of manufacture. Retail prices and discounts to dealers.
.55 Advertising, press copies and notices. See 659, Advertising.
.56 Retail bookselling. Prices and discounts to buyers.
.57 Subscription book publishing. Canvassing.
.58 Publishing societies.
.59 Publishing by governments, institutions, etc.

.6 Copyright. Literary property.

.61 Perpetual or common law right. Including ethics of copyright.
.62 Copyright in other matter than books. Music, mss., lectures, trademarks.
.63 International copyright. See also 341.5, International private law.
.64–.69 Copyright in special countries. Divided like 940–999.

656 Transportation. Railroading, etc.

657 Book-keeping. Accounts.

658 Business manuals. Methods. Tables.

659 Advertising and other topics.

660 Chemical Technology.

.1, ; .2, Compends; .3, Dictionaries, Cyclopedias; .4, Essays; .5, Periodicals, .6, Societies; .7, Study and Teaching; .8, ; .9, History of Chemical Technology.

661 Chemicals.

.1 Chemical Elements. Divided like 546.
.2 Acids. Sulphuric, Nitric, etc.
.3 Alkalies. Potash, Soda, Ammonia.
.4 Salts. For Common Salt see 664.4.
.5 Ammonia Salts.
.6 Sulphates and Nitrates.
.7 Cyanides.
.8

662 Pyrotechnics, Explosives, Matches, etc.

.1 Pyrotechnics.
.2 Explosives. See Blasting 622.23; Ordnance 623.4.
.3 Gunpowder.
.4 Fuses. Percussion Caps.
.5 Matches.
.6 Fuel. Coal, peat, natural gas, etc.
.7 Charcoal. Coke. See also 644, Domestic economy; 669.8, Metallurgy.
.8 Artificial fuel. See also 644, Domestic economy; 669.8, Metallurgy.
.9

663 Beverages. See also 178, Temperance; 614.35, Adulterations.

.1 Fermented.
.2 Wine.
.3 Brewed.
.4 Beer.
.5 Distilled.
.6 Artificial mineral waters. Soda water.
.7
.8 Mixing drinks. Bar-keepers' manuals.
.9 Chocolate. Cocoa. Commercial mixing of teas, coffees, etc.

664 Foods.

For Adulterations see 614.31, Public health. See also 641 and 643, Domestic economy.

.1 Sugar, molasses, glucose, etc.
.2 Starch, tapioca, sago, etc.
.3 Artificial butter. Oleomargarine. Lard, compound lard.
For butter, milk, and cheese see 637, Dairy.
.4 Salt.
.5 Spices. Condiments.
.6 Yeast. Baking powder.
For Bread see 641, Cookery.
.7
.8 Preservation of fruits and vegetables.
.9 " " meat and fish.

665 Oils. Gases. Candles. Lamps.

.1 Candles. Torches.
.2 Animal oils and fats. See also 664.3, Foods.
.3 Vegetable oils and fats.
.4 Mineral oils. Paraffine. Ozocerite. Asphaltum.
.5 Petroleum. Kerosene.
.6 Lamps. See also 644, Domestic economy.
.7 Illuminating gases. Calcium light.
.8 Other gases.
.9

666 Ceramics. Glass, etc.

.1 Glass. See also 748, Stained glass.
.2 Enamel.
.3 Ceramics. See also 738, Pottery, porcelain.
.4 Clay. See also 553.61, Economic geology.
.5 Porcelain.
.6 Stoneware. Earthenware. Pottery.
.7 Bricks. Tiles. See also 691.4, Building materials; 695.3, Roofing.
.8 Artificial stone. See also 691.3, Building materials.
.9 Cements. Limes. Mortars. See also 691.5, Building materials.

667 Bleaching, dyeing, etc.

.1 Bleaching.
.2 Dyeing. Artificial colors. Silk and wool.
.3 Cotton dyeing and calico printing.
.4 Inks. Writing inks. Indelible inks.
.5 Printing inks.
.6 Paints and pigments. See also 698.1, House painting; 751, Fine arts.
.7 Varnishes. Polish. Lacquer. See also 698.3, Varnishing.
.8 Japan. Blacking.
.9

668 Other organic chemical industries.

.1 Soap.
.2 Glycerine.
.3 Glue.
.4 Gums and resins.
.5 Essences, perfumery, essential oils and ethers, etc. See also 646, Toilet.
.6 Fertilizers. See also 631, Agriculture.
.7 Distillation. Coal tar, etc.

669 Metallurgy and assaying.

History of metals goes here; not in 553, 622, nor 671.

.1 Iron and steel.
.2 Gold and silver.
.3 Copper.
.4 Lead.
.5 Zinc.
.6 Tin.
.7 Mercury and other metals.
.8 Fuels and furnaces. Slags.
.0 Assaying.

670 Manufactures.

Specific topics go where of most interest. These heads are for the *general* subject of metal, wood, etc., manufactures, and for such specific manufactures as are not of more interest elsewhere. But an account of a specific manufacture is commonly most useful with its own subject; e. g., a steam engine is certainly made of metal, but its manufacture should go under 621.1, not 672. The character of the library often decides the place of greatest interest. An agricultural library would prefer the manufacture and everything about wood churns with the dairy, 637, while a manufacturing library might prefer it with other wood manufactures in 674. A general library will incline to the special subject, as a more minute classification is thus obtained, and references under 670 answer inquiries for all the library has on the subject of brass or rubber or paper manufactures. Whether groupt by use or material, if sought from the other standpoint, the references show the resources promptly. As a rule the use is the better classification, being more minute and oftener wanted. But if the uses are various the general head is better; e. g., bells are for scores of distinct uses, but their manufacture is a unit; but all churns are for the dairy.

671 Articles made of Metals.

672 Of Iron and Steel; Stoves, Cutlery, etc.

673 Of Brass and Bronze; Bells, etc. See also 739.

674 Lumber and Articles made of Wood.

675 Leather „ „ „ „ Leather.

676 Paper „ „ „ „ Paper.

677 Cotton, Wool, Silk, Linen, etc.

678 Rubber and Articles made of Rubber.

679 Celluloid and other.

680 Mechanic Trades. Amateur Manuals.

681 Watch and Instrument-making.

682 Blacksmithing.

.1 **Horseshoeing.**

683 Lock and Gun-making.

684 Carriage and Cabinet-making.

685 Saddlery and Shoe-making. Trunks.

686 Bookbinding.

687 Clothes-making. Hats.

688

689 Other Trades.

690 Building. For Architectural Construction, see 721.

.1, Theories of Construction; .2, Compends, Manuals; .3, Dictionaries, Cyclopedias; .4, Essays, Lectures; .5, Periodicals; .6, Societies, Exhibitions; .7, Education, Study, Training, Apprenticeship, Tools and their Use (for the use of special tools see special trade); .8, Collections, Patents, Inventions; .9, History of Building Construction.

691 Materials. Processes. Preservatives.

See also 620.1, Strength of Materials.

.1 **Wood. Creosoting, etc.**
.2 **Natural Stone. Parafining, etc.**
.3 **Artificial Stone. Concrete.**
.4 **Bricks. Tiles. Other Ceramic Productions.**
.5 **Lime. Cement. Plaster.**
.6 **Glass.**
.7 **Iron. Steel. Anti-rust Processes.**
.8 **Other Metals.**
.9 **Other Materials.**

692 Plans. Specifications, etc.

.1 **General Drawings.**
.2 **Detail Drawings.**
.3 **Specifications.**
.4 **Contracts. Agreements. Bids. Advertisements.**
.5 **Estimates. Quantities. Cost.**
.6 **Superintendence.**
.7 **Supervision of Accounts.**
.8 **Professional Services. Fees. Commissions.**
.9 **Building Laws. Liabilities of Architects, Owners, and Contractors.**

693 Masonry. Plastering. Fire Proofing.

.1 **Stone Construction.**
.11 Bonds of Stone Work.
.12 Cutting and Dressing of Stone. See 515.8, Stereotomy; 736, Stone Carving.
.2 **Brick Construction.**
.21 Bonds of Brick Work.
.22 Adobe or Sun-dried Brick, etc.
.3 **Terra Cotta Construction.**
.4 **Hollow Tile and Porous Terra Construction.**
.5 **Concrete and Beton Construction.**
.6 **Plastering.**
.61 External Plastering and Stucco.
.62 Internal Plastering.
.63 Ornamental Plaster-work.
.64 Scagliola.
.65 Wooden Lath.
.66 Metal Lath. (Wire, etc.)
.67 Mineral Wool Linings, etc.
.7
.8 **Fire Proofing.**
.9

694 Carpentry. Joinery. Stair-building.

.1 Wood Construction, General.
.2 Joints of Wood-work. Framing.
.3 Strengthened Beams.
.4 Posts. Columns. See 721.31.
.5 Panelled and Latticed Construction.
.6 Joinery, General. For Finishing, varnish, polish, etc., see 698.3.
.7 Ornamental Joinery. Cabinet-work.
8 Stair-building. See 515.83, Stereotomy.
.9 Other branches. See 721.87-89.

695 Roofing. Slating. Tiling. See 721.4, Roof Constructions.

.1 Shingle.
.2 Slate.
.3 Tile.
.4 Metal. Tin. Copper. Lead. Zinc.
.5 Iron.
.6 Asphalt. Tar. Concrete. (Melted.)
.7 Felt. Asbestos. Paper. (In rolls.)
.8 Textile. Duck. Canvas.
.9 Thatch and other Coverings.

696 Plumbing. Gas and Steam-fitting, etc.

.1 Plumbing. See 628, Principles of Sanitation.
.2 Gas-fitting.
.3 Steam-fitting.
.4 Rivets and Riveted Joints.
.5 Screws and Screw Joints.
.6 Rust or Calked Joints.
.7 Anchors. Band Irons.
.8 Other branches.
.9 Plumbing Laws. See also 614.

697 Heating and Ventilation. See San. Eng., 628.8; Domestic Econ., 644.

.1 Fireplaces.
.2 Stoves.
.3 Furnaces.
.4 Hot Water, high and low pressure.
.5 Steam, high and low pressure. For Boilers, see 621.18.
.6 Gas. Coal Gas, Water Gas, Natural Gas.
.7 Electric and Other Methods.
.8 Smoke Flues and Chimneys.
.9 Ventilation. Air Ducts. Conduits. Fans.

698 Painting. Glazing. Paper-hanging.

.1 Painting. Oil.
.2 Distemper and Fresco.
.3 Varnishing. Polishing.
.4 Other Modes of Protection.
.5 Glazing. See 748, Stained Glass.
.6 Paper-hanging.
.7 Textile Hangings. Tapestry.
.8 Relief Work. Lincrusta. Stamped Leather, etc.
.9 Other branches.

699 Car and Ship Building.

Fine Arts.

700 Fine Arts.

701 Philosophy. Theories. Utility. Æsthetics.

702 Compends. Outlines.

703 Dictionaries. Cyclopedias.

704 Essays. Lectures. Addresses.

705 Periodicals. Magazines. Reviews.

706 Societies. Transactions. Reports, etc.

707 Education. Study and Teaching of Art.

708 Art Galleries and Museums.

- .1 **American. Corcoran, Metropolitan, Boston.**
- .2 **English. National, Hampton Court, Windsor.**
- .3 **German. Dresden, Munich, Berlin, Vienna.**
- .4 **French. Louvre, Luxembourg.**
- .5 **Italian. Vatican, Sistine, Pitti, Medici, Borbonico.**
- .6 **Spanish. Madrid, Seville.**
- .7 **Russian. St. Petersburg, Hermitage.**
- .8 **Scandinavian. Copenhagen.**
- .9 **Other Countries.**

709 History of Art in General. Divided like 930–909.

710 Landscape Gardening.

711 Public Parks.

712 Private Grounds. Lawns.

713 Walks. Drives.

714 Water. Fountains. Lakes.

715 Trees. Hedges. Shrubs.

See also 634.9, Forestry; 582, Botany.

716 Plants. Flowers.

.1, Plants; .2, Flowers; .3, Conservatories; .4, Window gardens; .5, Ferneries.

717 Arbors. Seats. Outlooks.

718 Monuments. Mausoleums.

719 Cemeteries. See also 393.1, Earth burial; 614.61, Public health

720 Architecture.

.1, Theories, Esthetics, Architectonics; .2, Compends, Manuals; .3, Dictionaries, Cyclopedias; .4, Essays, Lectures; .5, Periodicals; .6, Societies; .7, Education, Study, Training, Schools of Architecture; .8, Polygraphy, Collections; .9, General History of Architecture, divided geographically like 940–999.

721 Architectural Construction.

.1 Foundations. See Bridge Engineering, 624.1, Foundations.

.11 Dimension Stone.
.12 Rubble Stone.
.13 Concrete.
.14 Sand or Gravel.
.15 Timber Gratings.
.16 Piles. Sand Piles.
.17 Sunken Wells.
.18 Sunken Tubes.
.19 Other Foundations.

.2 Walls.

.21 Wooden and Half-timbered.
.22 Stone.
.23 Artificial Stone, Concrete, Pisé, etc.
.24 Brick.
.25 Bases. Water Tables. Belt Courses.
.26 Arcades. Colonnades.
.27 Cornices.
.28 Gables and Pediments. See also 721.58, Gable Roofs.
.29 Other Walls.

.3 Piers. Columns.

.31 Wooden. See also Carpentry, 694.4.
.32 Stone.
.33 Concrete. Artificial Stone.
.34 Brick. Terra Cotta.
.35 Iron. Steel.
.36 Fire-proof. Protected.
.37
.38
.39

.4 Arched Constructions.

See 624.6, Arched Bridges; and 729.33 and 729.37, elementary forms.

.41 Arches, Circular.
.42 Arches, other forms.
.43 Vaults, Cylindrical.
.44 Vaults, Groined.
.45 Vaults, other forms.
.46 Domes, Circular.
.47 Domes, other forms.
.48
.49

721.5 **Roofs.** See 695, Roof Coverings; 624.9, Engineering, Roofs.

.51 Wooden.
.52 Masonry.
.53 Glass.
.54 Metallic.
.55 Windows. Openings in Roofs.
.56 Roof Decoration. Cresting, Repoussé work, Colored Tiles, etc. See 695.3.
.57 Spires and Domes.
.58 Gables. See also 721.28, Gable Walls.
.59 Other forms of Roofs.

.6 **Floors and Flooring.**

.61 Wooden. Construction and Coverings.
.62 Stone. " "
.63 Brick and Hollow Tile. " "
.64 Metallic. Compound. " "
.65 Composite. " "
.66 Parquetry. Coverings only.
.67 Mosaics. "
.68 Tiles. See 695.3, Roofing Tile.
.69 Other Coverings.

.7 **Ceilings.**

.71 Wooden.
.72 Stone.
.73 Brick or Tiles with Iron.
.74 Metallic.
.75 Concrete. Plaster.
.76
.77
.78
.79

For vaulted ceilings, see 721.4 and 729.34.

.8 **Doors. Gates. Grilles. Windows.**

.81 Doors, Wooden.
.82 Doors, Metallic.
.83 Doors, Sash, Lattice, Screen, etc.
.84 Windows, External.
.85 Windows, Internal.
.86 Enclosures of Doors and Windows.
Architraves. Pilasters. Jambs. Pediments. Lintels, etc.
.87 Shutters. Blinds. Screens. Grilles.
.88 Fastenings. Locks.
.89 Other details.

.9 **Iron and Composite Structures.**

For Strength of Material, see Engineering, 620.1.

.91 Cast Iron.
.92 Wrought Iron.
.93 Steel.
.94 Composite.
.95 Iron and Wood.
.96 Iron and Stone.
.97 Iron and Brick, Tile, Terra Cotta.
.98 Iron and Glass.
.99 Wood and Glass.

722 Ancient and Oriental Architecture. (Pagan.)

See also 571.8, Prehistoric Dwellings.

.1 **Chinese. Japanese.**
.2 **Egyptian.**
.3 **Phenician. Tyrian. Jewish. Carthaginian. Cypriote.**
.4 **Indian (Asiatic).**
Hindoo, Buddhist, Jaina, Himalayan, Dravidian, Chalukyan, Indo-Aryan, Burmese, Siamese, Cambodian.
.5 **Chaldean. Assyrian. Babylonian. Ancient Persian. Sassanian.**
.6 **Pelasgian. Etruscan.**
.7 **Roman.** See 729.32 for Roman Orders.
.8 **Grecian.** See 729.32 for Greek Orders.
.9 **Other. Aztec. Peruvian. Maya. Yucatan, etc.**

723 Mediæval. (Christian. Mohammedan.)

.1 **Early Christian.**
.2 **Byzantine. Armenian. Russian.**
.3 **Mohammedan. Saracenic, Moorish, Persian, Turkish, Indian.** For Ancient Indian see 722.4.
.4 **Romanesque.**
.41 Scotch. Irish.
.42 English. Saxon. Norman.
.43 German. Austrian.
.44 French. Provençal. Norman. Angevin.
.45 Italian. Sicilian Norman.
.46 Spanish. Portuguese.
.47
.48 Danish. Swedish. Norwegian.
.49 Minor Countries.
.5 **Gothic or Pointed.** Divided like 723.4.

724 Modern.

All the sub-sections of 724 are subdivided geographically like 040–999.

.1 **Renaissance.**
.2 **Grecian Revival.**
.3 **Gothic Revival.**
.4 **Victorian Gothic. Tudor.**
.5 **Queen Anne.**
.6 **Néo-Grec.**
.7 **Swiss. Timber.**
.8 **Romanesque Revival.**
.9 **Other Styles.**

725 Public Buildings.

.1 Administrative. Governmental.

.11 Capitols. Houses of Parliament.
.12 Ministries of War, State, etc.
.13 City and Town Halls. Bureaus. Public Offices.
.14 Custom Houses. Bonded Warehouses. Excise Offices.
.15 Court Houses. Record Offices.
.16 Post Offices, General and Special.
.17 Official Residences. Palaces of Rulers.
.18 Barracks. Armories. Police Stations.
.19 Engine Houses. Fire Alarm Stations.

.2 Business and Commercial.

.21 Stores, Wholesale and Retail.
.22 Mixed Store, Office, and Apartment Buildings.
.23 Office Buildings. Telegraph. Insurance.
.24 Banks. Safe Deposit. Savings.
.25 Exchanges. Boards of Trade.
.26 Markets.
.27 Cattle Markets. Stock Yards.
.28 Abattoirs.
.29 Other Business Buildings.

.3 Transportation and Storage.

.31 Railway Passenger Stations.
.311 Small (country) Stations.
.312 Large (city) "
.313 Union "
.314 Stations on two levels.
.315
.316
.317 Street-car Stations.
.318 Elevated R. R. Stations.
.319 Underground R. R. Stations.
.32 Railway Freight Houses.
.33 Railway Shops, Round Houses, Car Houses, Tanks, Stores.
.34 Dock Buildings. Wharf Boats and Houses.
.35 Warehouses. Cold Storage. Safe Deposit Storage.
.36 Elevators, Grain.
.37
.38
.39 Other.

.4 Manufactories.

.41 Textile Factories or Mills. Wool, Cotton, Silk.
.42 Breweries. Malteries. Distilleries.
.43 Foundries. Machine Shops. Iron and Steel Works.
.44 Wood-working Mills. Furniture Factories.
.45 Carriage and Car Factories.
.46 Paper Mills.
.47 Mills for Flour, Meal, Feed, etc.
.48 Pottery, Glass, Terracotta, Brick Works.
.49 Other Manufactories.

725.5 **Hospitals and Asylums.** See also 725.6. Reformatories.

.51 Sick and Wounded. Eye and Ear. Incurables. Lying-in.
.52 Insane.
.53 Idiotic. Feeble-minded.
.54 Blind. Deaf and Dumb.
.55 Paupers. Almshouses.
.56 Aged.
.57 Children. Orphans.
.58 Foundling.
.59 Soldiers' Homes.

.6 **Prisons and Reformatories.**

.61 State Prisons. Penitentiaries.
.62 Jails. Cell Houses.
.63 Reformatories for Adults. Houses of Correction.
.64 Reform Schools.
.65 Washingtonian Homes. Inebriate Asylums.
.66

.7 **Refreshment. Baths. Parks.**

.71 Cafés. Restaurants.
.72 Saloons.
.73 Baths; Warm, Medicated, Turkish, Russian.
.74 Swimming Baths.
.75 Buildings for Watering Places, Spas, etc.
.76 Buildings for Parks.

.8 **Recreation.**

.81 Music Halls.
.82 Theatres. Opera Houses.
.83 Halls for Lectures, Readings, etc.
.84 Bowling Alleys. Billiard Saloons.
.85 Gymnasiums. Turn Halls.
.86 Skating Rinks. Bicycle Rinks.
.87 Boat Houses.
.88 Riding Halls and Schools.
.89 Shooting Galleries.

.9 **Other Public Buildings.**

.91 Exhibition Halls.
.92 Temporary Halls. Tabernacles. Wigwams.
.93 Workingmen's Clubs and Institutes.
.94

726 Ecclesiastical and Religious.

.1 **Temples.**
.2 **Mosques.**
.3 **Synagogues.**
.4 **Chapels. Sunday-school Buildings.**
.5 **Churches.**
.6 **Cathedrals.**
.7 **Monasteries. Convents. Abbeys.**
.8 **Mortuary. Cemetery Chapels. Receiving Vaults. Tombs**
.9 **Other. Y. M. C. A., etc.**

727 Educational and Scientific.

.1 **Schools.**

Study and Recitation Rooms. Not including dormitory or boarding.

.2 **Academies. Seminaries. Boarding Schools.**

.3 **Colleges. Universities.**

.4 **Professional and Technical Schools. Law, Theology, etc.**

.5 **Laboratories; Physical, Chemical** see 542.1, **Biological, etc. Zoölogical and Botanic Gardens** see also 590.7 and 580.7.

.6 **Museums. Herbariums** see 580.7.

.7 **Art Galleries. Studios.**

.8 **Libraries.** See 022, Library Buildings.

.9 **Other. Learned Societies, etc.**

728 Residences.

.1 **Tenement Houses.**

.11 City Homes of Poor.

.12 Country "

.13 Cités Ouvrières.

.2 **Apartment Houses. Flats. Family Hotels.**

.3 **City Houses. Mansions. Palaces.**

.31 Between party-walls. Stone.

.32 " " Brick.

.33 " " Partly wood.

.34 Semi-detached, including end houses in city blocks. Stone.

.35 " " " Brick.

.36 " " " Partly wood.

.37 Detached. Stone.

.38 " Brick.

.39 " Partly wood.

.4 **Club Houses. Buildings for Secret Societies.**

.5 **Hotels. Inns.**

.51 City Hotels.

.52 Summer Resorts.

.53 Country Inns.

.6 **Village and Country Homes.**

.61 Village Dwellings. On small lots.

.62 Stone.

.63 Brick.

.64 Concrete or stucco.

.65 Part masonry, part wood.

.66 All wood.

.67 Farm Houses.

.68 Laborers' Cottages.

.7 **Seaside and Mountain Cottages. Chalets.**

.8 **Country Seats.**

.81 Castles.

.82 Chateaux.

.83 Manor Houses.

.84 Villas.

728.9 **Out-Buildings.**

.91 Porter's Lodges.
.92 Servants' Quarters.
.93 Kitchens and Laundries.
.94 Stables. Carriage Houses.
.95 Barns. Granaries.
.96 Dairies.
.97 Ice Houses.
.98 Conservatories. Green Houses. Graperies.
.99 Other.

729 Architectural Design and Decoration.

.1 **The Elevation.**

.11 Composition.
.12 Distribution.
.13 Proportion.
.14 Light and Shade.
.15 Perspective effect.
.16
.17
.18
.19

For projection of shadows and graphics of light and shadow see 515.63 and 515.7.

.2 **The Plan.**

.21 Elements required.
.22 Distribution.
.23 Proportion.
.24
.25
.26
.27
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.29

.3 **Elementary Forms.** For construction of these forms see 721.

.31 Walls. Mouldings. Cornices.
.32 Piers, Columns, Pilasters, Pedestals and the Orders. Colonnades.
.33 Arches and Arcades.
.34 Vaults and Domes.
.35 Roofs. Spires. Dormers.
.36 Towers.
.37 Gables and Pediments.
.38 Doors and Windows. Bays. Oriels.
.39 Stairs and Balustrades. See also 515.83, Stereotomy; 604.8, Building.

.4 **Painted Decoration.**

See also 729.7. Mosaic.

.41 Vegetable forms.
.42 Animal forms.
.43 Grotesque forms.
.44 Conventional and Geometric Forms.
.45 Painted Moldings.
.46 Painted Friezes and Panels.
.47 Painted Columns and Pilasters.
.48 Painted Ceilings and Vaults.
.49 Painted Walls.

729.5 **Decoration in Relief.** For Bas Relief and Figure Carving see 730.

.51 Vegetable forms.
.52 Animal forms.
.53 Grotesque forms.
.54 Conventional and Geometric forms.
.55 Carved Moldings.
.56 Carved Friezes and Panels.
.57 Carved Columns and Pilasters.
.58 Carved Ceilings and Vaults.
.59 Other Carved Ornament.

.6 **Incrustation and Veneering.**

.61 Of External Walls (in brick, stone, or marble, tiles, etc.).
.62 Of Interiors.
.63 Intarsia and Inlay.
.64 Niello-work.
.65 Enamel Decoration.
.66
.67
.68
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.7 **Mosaic.**

.71 Mosaic Ceilings.
.72 Mosaic Walls.
.73 Mosaic Floors.
.74 Other Mosaic designs.
.75
.76
.77
.78
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.8 **Stained Glass Design.** For technical processes see 666.1; for history see 748.

.81 Geometric Windows.
.82 Medallion Windows.
.83 Canopy Windows.
.84 Figure Windows.
.85 Mosaic Windows.
.86 Other kinds of stained glass.
.87
.88
.89

.9 **Architectural Accessories and Fixed Furniture.**

.91 Altars.
.92 Pulpits. Tribunes.
.93 Dais. Thrones.
.94 Buffets.
.95 Mantels. Overmantels.
.96 Screens. Rood Screen. Reredos.
.97
.98
.99

730 Sculpture.

731 Materials and Methods.

732 Ancient.

733 Greek and Roman.

734 Medieval.

735 Modern.

736 Carving. Seals. Dies. Gems. Cameos.

737 Numismatics. Coins. Medals.

738 Pottery. Porcelain.

739 Bronzes. Brasses. Bric-a-brac.

740 Drawing. Decoration. Design.

741 Free-hand. Crayon. Sketching from Nature. Caricatures. Cartoons.

Collections on any subject go with that subject with reference from 741.

742 Perspective. See also 515.6.

743 Art Anatomy. Life School.

744 Mathematical and Scientific Drawing. See 515.

745 Ornamental Design. Woven Fabrics. Carpets. Wall Paper, etc.

746 Art Needlework. Fancy Work.

747 Interior Decoration. Distemper. Fresco. Polychrome.

748 Stained and Iridescent Glass. For Leading, see 698.5.

749 Artistic Furniture. Fireplaces. Frames, etc.

750 Painting.

751 Materials and Methods.

752 Color. See 535.6, Optics.

753 Epic. Mythic. Idealistic. See 759.3, German School.

754 Genre. Still Life. See 759.4, French; and 759.9, Belgian.

755 Religious. Ecclesiastic. See 759.5, Italian; and 759.6, Spanish.

756 Historical. Battle Scenes.

757 Portrait.

758 Landscape and Marine. Animals. Flowers.

759 Various Schools of Painting.

1, American; 2, English; 3, German; 4, French; 5, Italian; 6, Spanish; 7, Slavic; 8, Scandinavian; 9, Other Schools.

760 Engraving.

761 Wood.

762 Copper and Steel

763 Lithography.

764 Chromolithography.

765 Line and Stipple.

766 Mezzotint and Aquatint.

767 Etching. Dry Point.

768 Bank Note and Machine.

769 Collections of Engravings.

770 Photography.

771 Materials. Photographic Chemistry.

772 Silver Processes. Daguerreotype. Talbotype. Collodion Process. Ambrotype, etc. Dry-Plate Processes.

773 Gelatine and Pigment Processes. Woodburytype. Carbon Process. Lambertype. Autotype, etc.

774 Gelatine and Printer's Ink Processes. Albertype. Heliotype. Artotype, etc.

775 Photo-lithography, etc.

776 Photo-zincography, etc.

777 Photo-engraving and Photo-electrotyping.

778 Special Applications. See 522.63, Astronomy. See 578, Microscopy.

779 Collections of Photographs.

780 Music.

.1, Philosophy and Æsthetics of Music; .2, Compends; .3, Dictionaries; .4, Essays; .5, Periodicals; .6, Societies; .7, Education, Conservatories; .8, Polygraphy Libraries; .9, History, divided by countries, like 930–999. All heads include both the music itself and everything about it: Score, Libretto, History, Criticism, etc.

781 Theory of Music.

.1 **Mathematical and Physical.**

.2 **Elementary and General.**

.3 **Harmony. Thoroughbass**

.4 **Counterpoint.**

.5 **Musical Form.**

.6 **Composition and Instrumentation.**

.7 **Oriental Theories and Forms. Russian Music.**

.8 **Ancient Grecian Theories, Modes, and Forms.**

.9

782 Dramatic Music.

.1 **Grand Opera.**

.2 **Epic. Wagnerian.**

.3 **Other German Grand Opera.**

.4 **French Grand Opera.**

.5 **Italian Grand Opera.**

.6 **Comic and Satirical.**

.7 **Opera Bouffe.**

.8 **Operettas and Cantatas.** See 783.4.

.9 **Pantomimes. Masks, etc.**

783 Sacred Music.

See 245, Hymnology, Sacred Poetry for hymns alone; if with tunes they go in 783.9; 786.8, Organ; 246.7–8, Evangelistic use and Eucharistic music; 264.2, Public Worship.

.1 **Organ and Orchestral. Accompaniment.**

.2 **Cathedral Services. Masses. Vespers, etc.**

.21, Mass. Communion Services; .22, Common of the Mass; Kyrie, Gloria in Excelsis, Credo, Benedictus, Agnus Dei; .23, Proper of the Season; Offertory, Sequence, Gradual, Tract; .24, Choral Service; Antiphonal, Responsive; .25, Plain Song; .26, Litanies; .27, Lenten and Penitential; Good Friday, "Reproaches"; .28, Festival; Christmas, Easter, etc.; .29, Processional. Recessional.

.3 **Oratorio. Passion Music.**

.4 **Anthem. Motet. Sacred Cantata. Polyphonic School, Palestrina. 16th Century.**

.5 **Chant. Gregorian. Anglican.**

.6 **Chorale. Tune. Carol.**

.7 **Evangelistic. Mission. Revival. Sunday School.**

.8 **Choir. Men and Boys. Quartet. Chorus.**

.9 **Congregational Singing. Psalmody. Hymnody.**

784 Vocal Music.

.1 Glee. Madrigal. Round. Catch.

.2 Aria. Cavatina. Recitative. e. g. in Oratorio, Mass, Opera.

.3 Ballad and Song. Romantic. Idyllic. Sentimental. e. g Modern German.

.4 Popular Ballads. Volkslied. e. g. Irish, Scotch, etc.

.5 Festival. e. g. Sængerbund. Eisteddfod. Competitive.

.6 College, Society Songs, and Choruses.

.7 Negro Minstrelsy. Plantation Songs.

.8 Collected Songs.

.81, Solos; .82, Duets; .83, Trios; .84, Quartets; .85, Other Part Songs; .86, Choruses; .87, Collections for Male Voices; .88, Collections for Female Voices; .89, Other Special Collections.

.9 Vocal Hygiene, Culture, Development, and Methods. Tonic-Sol-Fa.

785 Orchestral Music. For Dramatic Orchestral Music, see 782; Sacred, 783.1.

.1 Symphony. Three or more movements; e. g. Adagio, Andante, Allegro, Allegretto, Scherzo, Finale, etc.

.2 Dramatic, Illustrative, Descriptive, Imitative.
e. g. Mendelssohn's Mid-Summer Night's Dream.

.3 Romantic. Idyllic.

.4 Program Music.

.5 Overture. e. g. Beethoven's "Leonores."

.6 Concerto. Orchestral with Solo Instrument.

.7 Chamber Music.

.8 Suite.

.9 Arrangements. Transcriptions. Pot Pourris.

786 Piano and Organ.

.1 Piano. History.

.2 Manufacture. Tuning. Temperament.

.3 Instruction.

.4 Piano Music. General Collections. For Piano Concerto, see 785.6.

.41 Sonata. Sonatina. Rondo.

.42 Fantasia. Arabesque.

.43 Nocturne. Meditation. Songs without Words. Romantic. Descriptive.

.44 March and March-form. Polonaise. Polka. Mazourka.

.45 Dance-form. National. Classical. Idealized.

.46 Modern Dance Music. Society. Festive.

.47 Etudes. Artistic. For Etudes for Instruction, see 786.3.

.48 Variations. Transcriptions.

.49 Arrangements. Four Hands and more. e. g. Orchestral Music arranged for Piano.

786.5 **Organ. History.**

.6 **Building.**

.7 **Instruction.**

.8 **Organ Music.** See 783, Sacred Music.

.81 Sonata. .82 Fugue. .83 Preludes. .84 Interludes. .85 Postludes. .86 Offertories. .87 Voluntaries. Improvisation. .88 Organ and Piano. .89 Organ, Piano, and Orchestra.

.9 **Cabinet Organ. Melodeon.**

787 Stringed Instruments.

Including with each, History, Manufacture, Instruction, Music, etc. Music for two instruments is put with the one most prominent in the composition.

Bowed.

.1 **Violin.**

.2 **Viola.**

.3 **Violoncello.**

.4 **Double Bass. Contra Bass.**

Plectral.

.5 **Harp.**

.6 **Guitar. Lute. Mandolin, etc.**

.7 **Banjo.**

.8 **Zither.**

.9 **Other Stringed Instruments. Harpsichord.**

788 Wind Instruments.

Including with each, History, Manufacture, Instruction, Music, etc.

Brass.

.1 **Trumpet. Slide and Valve.**

.2 **Trombone.**

.3 **Cornet.**

.4 **Horns and other Brass Wind Instruments.**

.41 French Horn.
.42 Saxhorn.
.43 Saxophone.
.44 Euphonium.
.45 Ophicleide.
.46 Key Bugle.
.47 Valve Bugle.
.48 Bass. Tuba and Contrabass Tuba. Serpent.
.49 Other.

Wood. Flute Group.

.5 **Flute. Waldflute. Piccolo. Fife. Flageolet.**

Wood. Reed Group.

.6 **Clarinet. Bass Clarinet. Bassethorn.**

.7 **Oboe. D'amore. Da Caccia. Cor Anglais.**

.8 **Bassoon. Double Bassoon. Bombardon.**

.9 **Other Reed Wind Instruments. Bagpipe.**

789 Percussion and Mechanical Instruments.

Percussion.

.1 Drum.

.2 Cymbals.

.3 Triangle.

.4 Tambourine. Castanets. Bones.

.5 Bells. Chimes. Carillon.

.6 Other Percussion Instruments. Xylophone.

Mechanical.

.7 Orchestrion.

.8 Music Box.

.9 Other Mechanical Instruments.

790 Amusements.

For Ethics of amusements, see 175.

791 Public Entertainment.

Concert, Panorama, Circus, Menagerie, Summer Resort, Garden, Rink, Museum, Fair Festival.

792 Theater. Pantomime. Opera. See also 782, Dramatic music.

793 In-door Amusements.

Private Theatricals, Tableaux, Charades, Dancing.

794 Games of Skill.

Chess, Checkers, Billiards, Bowling, Bagatelle.

795 Games of Chance.

Cards, Dice, Backgammon, Dominoes.

796 Out-door Sports.

Children's Sports, Athletic Sports, Coasting, Skating, Cycling, Quoits, Archery, Croquet, Lawn Tennis.

797 Boating and Ball.

Rowing, Yachting, Base-ball, Foot-ball, Cricket, Polo.

798 Horsemanship and Racing.

799 Fishing, Hunting, Target Shooting.

Literature.

The classification of literature is by *language* not country, except that North and South American are separated from other English. Canadian French goes with 840; Australian and Indian English with 820: South American Spanish with 860, etc. Numbers assigned to individual authors include only their *literary* works of that section and complete works which cannot be divided. Books on other subjects go with their proper subjects, unless a "special library" attracts all the authors' works, lives, etc. An author writing in two periods has all his books put in the one where most of them belong.

800 Literature. General Works.

801 Philosophy. Theories. Literary Æsthetics.

802 Compends. Outlines.

803 Dictionaries. Cyclopedias.

804 Essays. Lectures. Addresses.

805 Periodicals. Magazines. Reviews.

806 Societies. Transactions. Reports, etc.

807 Study and Teaching of Literature.

808 Rhetoric. Treatises. Collections.

Divided .1, Poetry; .2, Drama; .3, Fiction; .4, Essays; .5, Oratory; see also 784.9, Vocal Culture; .6, Letters, Epistolography; .7, Satire, Humor; .8, Collections too general to go with any one language, e. g. a book of Quotations from many languages.
These heads, and the same under 809, include only works about Poetry, etc., regardless of language.

809 History of Literature in general. Including general histories of books and knowledge; e. g. Hallam's Literature of Middle ages.
Divided like 808. .1, Poetry; .2, Drama; .3, Fiction, etc.

810 American Literature. Includes Canadian English.

.1, Philosophy; .2, Compends; .3, Dictionaries; .4, Essays on American Literature; .5, Periodicals; .6, Societies; .7, Study and Teaching; .8, Collections; .9, History of American Literature.

811 American Poetry.

.02, Dramatic; .03, Romantic and Epic; .04, Lyric, Ballads; .05, Didactic; .06, Descriptive; .07, Satirical and Humorous; .08, Collections; 09, History of American Poetry.

.1 Colonial, 1607–1776.

.11	Sandys, George	1577–1644.
.12	Bradstreet, Anne	1612–1672.
.13	Wigglesworth, Michael	1631–1705.
.14	Green, Joseph	1706–1780.
.15	Livingston, William	1723–1790.
.16	Ferguson, Elizabeth	1739–1801.

.2 Post-Revolutionary, 1776–1830.

.21	Trumbull, John	1750–1831.
.22	Dwight, Timothy	1752–1817.
.23	Barlow, Joel	1755–1812.
.24	Freneau, Philip	1752–1832.
.25	Alsop, Richard	1761–1841.
.26	Pierpont, John	1785–1866.
.27	Dana, Richard Henry	1787–1879.
.28	Sprague, Charles	1791–1875.
.29	Minor Poets.	

811.3 **Middle 19th Century, 1830–1861.**

.31	Halleck, Fitz-Greene	1790–1867.
.32	Poe, Edgar Allan	1809–1849.
.33	**Bryant, William Cullen**	1794–1878.
.34	**Longfellow, Henry Wadsworth**	1807–1882.
.35	Read, Thomas Buchanan	1822–1872.
.36	**Whittier, John Greenleaf**	1807–1892.
.37	**Lowell, James Russell**	1819–1891.
.38	Whitman, Walt	1819–1892.
.39		

.4 **Later 19th Century, 1861–**

.41	Stoddard, Richard Henry	1825–1903.
.42	Hayne, Paul Hamilton	1831–1886.
.43	Stedman, Edmund Clarence	1833–1908
.44	Winter, William	1836–
.45	**Miller, Cincinnatus Hiner, (Joaquin.)**	1841–
.46	Taylor, Bayard	1825–1878.
.47		
.48		
.49		

812 American Drama.

.1 **Colonial, 1607–1776.**

.11	Warren, Mercy	1728–1814.
.12	Godfrey, Thomas	1736–1763.
.13		

.2 **Post-Revolutionary, 1776–1830.**

.21	Tyler, Royall	1757–1826.
.22	Dunlap, William	1766–1839.
.23	Hillhouse, James Abraham	1789–1841.
.24	Ingersoll, Charles Jared	1782–1862.
.25		

.3 **Middle 19th Century, 1830–1861.**

.31	Ritchie, Anna Cora Mowatt	1818–1870.
.32	Mathews, Cornelius	1817–1889.
.33	Boker, George Henry	1823–1890.
.34		

.4 **Later 19th Century, 1861–**

.41

813 American Fiction.

.1 **Colonial, 1607–1776.**

.2 **Post-Revolutionary, 1776–1830.**

.21	Brackenridge, Hugh Henry	1748–1816.
.22	Rowson, Susanna	1762–1824.
.23	Brown, Charles Brockden	1771–1810.
.24	**Cooper, James Fenimore**	1789–1851.
.25	Ware, William	1797–1852.
.26	Neal, John	1793–1876
.27		
.28		
.29		

813.3 **Middle 19th Century, 1830–1861.**

.31	Thompson, Daniel Pierce	1795–1868.
.32	Kennedy, John Pendleton	1795–1870.
.33	**Hawthorne, Nathaniel**	1804–1864.
.34	Judd, Sylvester	1813–1853.
.35	Simms, William Gilmore	1806–1870.
.36	Melville, Herman	1819–1891.
.37	Stowe, Harriet Beecher	1812–
.38		
.39		

.4 **Later 19th Century, 1861–**

.41	Alcott, Louisa May	1832–1888.
.42	Eggleston, Edward	1837–
.43	Howells, William Dean	1837–
.44	Aldrich, Thomas Bailey	1836–
.45	Harte, Francis Bret	1839–
.46	James, Henry	1843–
.47	Hawthorne, Julian	1846–
.48	Burnett, Frances Hodgson	1849–
.49	Minor Novelists.	

814 American Essays.

.1 **Colonial, 1607–1776.**

.2 **Post-Revolutionary, 1776–1830.**

.21	Rush, Benjamin	1745–1813.
.22	Webster, Noah	1758–1843.
.23	Channing, William Ellery	1780–1842.

.3 **Middle 19th Century, 1830–1861.**

.31	Ossoli, Margaret Fuller	1810–1850.	
.32	Giles, Henry	1809–1882.	
.33	Tuckerman, Henry Theodore	1813–1871.	
.34	**Holland, Josiah Gilbert**	1819–1881.	
.35	Whipple, Edwin Percy	1819–1886.	
.36	Emerson, Ralph Waldo	1803–1882.	See also 191.3.
.37	Curtis, George William	1824–1892	

.4 **Later 19th Century, 1861–**

.41	Burroughs, John	**1837–**
.42		
.43		
.44		

815 American Oratory.

.1 **Colonial, 1607–1776.**

11

.12

.2 **Post-Revolutionary, 1776–1830.**

.21	Hamilton, Alexander	1757–1804.
.22	Ames, Fisher	1758–1808.
.23	Wirt, William	1772–1834.
.24	Randolph, John	1773–1833.
.25	Clay, Henry	1777–1852.
.26	Calhoun, John Caldwell	1782–1850.
.27	Webster, Daniel	1782–1852.
.28		
.29		

815.3 **Middle 19th Century, 1830–1861.**

.31	Everett, Edward.	1794–1865.
.32	Choate, Rufus.	1799–1859.
.33	Sumner, Charles.	1811–1874.
.34	Phillips, Wendell.	1811–1884.
.35	Chapin, Edwin Hubbell.	1814–1880.
.36	Beecher, Henry Ward.	1813–1887.

.4 **Later 19th Century, 1861–**

.41

.42

.43

816 American Letters. Subdivided by periods, like 811.

817 American Satire and Humor.

.1 **Colonial, 1607–1776.**

.11	Ward, Nathaniel.	1570–1653.
.12	Alsop, George.	1638– ?
.13	Byles, Mather.	1706–1788.
.14	Hopkinson, Francis.	1737–1791.
.15	Peters, Samuel Andrew.	1735–1826.

.2 **Post-Revolutionary, 1776–1830.**

.21	Story, Isaac.	1774–1803.
.22	Fessenden, Thomas Green.	1771–1837.
.23	Paulding, James Kirke.	1779–1860.
.24	**Irving, Washington.**	1783–1859.
.25	Verplanck, Gulian Crommelin.	1786–1870.

.26

.27

.3 **Middle 19th Century, 1830–1861.**

.31	Neal, Joseph Clay.	1807–1847.
.32	**Holmes, Oliver Wendell.**	1809–1894.
.33	Shelton, Frederick William.	1814–1881.
.34	Shillaber, B. P. (Mrs. Partington.)	1814–1890.
.35	Saxe, John Godfrey.	1816–1887.
.36	Cozzens, Frederick Swartout.	1818–1869.
.37	Browne, C. F., (Artemus Ward.)	1834–1867.
.38	Haliburton, Thomas Chandler.	1796–1865.
.39	Minor Satirists and Humorists.	

.4 **Later 19th Century, 1861–**

.41	Warner, Charles Dudley.	1829–
.42	Locke, David Ross, (Nasby.)	1833–1888.
.43	Burdette, Robert J.	1844–
.44	Clemens, S. L., (Mark Twain.)	1835–
.45	Carleton, William.	1845–
.46	Shaw, Henry W., (Josh Billings.)	1818–1885.

.47

818 American Miscellany.

.3 **Middle 19th Century, 1830–1861.**

.31	Thoreau, Henry David.	1817–1862.
.32	Mitchell, Donald Grant, (Ik Marvel.)	1822–

820 English Literature.

820.1, Philosophy; .2, Compends; .3, Dictionaries; .4, Essays on English Literature; .5, Periodicals; .6, Societies; .7, Study and Teaching; .8, Collections; .9, History.

821 English Poetry.

.02, Dramatic; .03, Romantic and Epic; .04, Lyric, Ballads; .05, Didactic; .06, Descriptive; .07, Satirical and Humorous; .08, Collections; .09, History of English Poetry.

.1 Early English, 1066–1400.

.11	Layamon	1150–1207.
.12	Ormin	1187–1237.
.13	Robert of Gloucester	1245–1307.
.14	Minot, Lawrence	1313–1352.
.15	Langland, William	1332–1399.
.16	Barbour, John	1316–1395.
.17	**Chaucer, Geoffrey**	1340–1400.
.18	Gower, John	1325–1408.
.19	Minor Writers.	

.2 Pre-Elizabethan, 1400–1558.

.21	Lydgate, John	1369–1461.
.22	Skelton, John	1460–1529.
.23	Dunbar, William	1460–1520.
.24	Douglas, Gavin	1474–1522.
.25	Hawes, Stephen	1483–1509.
.26	Lyndsay, Sir David	1490–1555.
.27	Wyatt, Sir Thomas	1503–1542.
.28	Surrey, Henry Howard, earl of	1517–1547.
.29	Minor Writers.	

.3 Elizabethan, 1558–1625.

.31	**Spenser, Edmund**	1553–1599.
.32	Sidney, Sir Philip	1554–1586.
.33	Daniel, Samuel	1562–1619.
.34	Drayton, Michael	1563–1631.
.35	Davies, John	1569–1626.
.36	Drummond, William	1585–1649.
.37	Fletcher, Giles and Phineas	1585–1050.
.38	Herbert, George	1593–1632.
.39	Minor Writers.	

.4 Post-Elizabethan, 1625–1702.

.41	Suckling, Sir John	1609–164[illegible].
.42	Crashaw, Richard	1616–1650.
.43	Herrick, Robert	1591–1674.
.44	Waller, Edmund	1605–1687.
.45	Lovelace, Richard	1618–1658.
.46	Cowley, Abraham	1618–1667.
.47	**Milton, John**	1608–1674.
.48	**Dryden, John**	1631–1700.
.49	Minor Writers.	

821.5 Queen Anne, Early 18th Century, 1702–1745.

.51	Prior, Matthew	1664–1721.	
.52	Parnell, Thomas	1679–1717.	
.53	**Pope, Alexander**	1688–1744.	See also 827.5e.
.54	Ramsay, Allan	1686–1758.	
.55	Young, Edward	1684–1765.	
.56	Thomson, James	1700–1748.	
.57	Collins, William	1721–1759.	
.58	Shenstone, William	1714–1763.	
.59	Minor Writers.		

.6 Later 18th Century, Pre-Revolutionary, 1745–1800.

.61	Gray, Thomas	1716–1771.	
.62	Akenside, Mark	1721–1770.	
.63	Chatterton, Thomas	1752–1770.	
.64	Goldsmith, Oliver	1728–1774.	See also 823.64 and 824.66.
.65	Cowper, William	1731–1800.	
.66	Macpherson, James	1738–1796.	
.67	**Burns, Robert**	1759–1796.	
.68	White, Henry Kirke	1785–1806.	
.69	Minor Writers.		

.7 Early 19th Century, Post-Revolutionary, 1800–1837.

.71	Wordsworth, William	1770–1850.	
.72	Coleridge, Samuel Taylor	1772–1834.	
.73	Southey, Robert	1774–1843.	
.74	Scott, Sir Walter	1771–1832.	See also 823.73.
.75	Moore, Thomas	1779–1852.	
.76	Byron, Geo. Gordon Noel	1788–1824.	
.77	Shelley, Percy Bysshe	1792–1822.	
.78	Keats, John	1795–1821.	
.79	Minor Writers.		

.8 Victorian Period, 1837–

.81	Tennyson, Alfred	1809–1892.
.82	Browning, Elizabeth Barrett	1809–1861
.83	Browning, Robert	1812–1889.
.84	Rossetti, Dante Gabriel	1828–1882
.85	Morris, William	1834–1896.
.86	Swinburne, Algernon Charles	1837–
.87		
.88		
.89	Minor Writers.	

.1	**Early English, 1066–1400.**		
.11	Chester Plays.		
.12	Coventry Plays.		
.13	Townley Plays.		
.2	**Pre-Elizabethan, 1400–1558.**		
.21	Heywood, John	1506–1565.	
.22	Udall, Nicholas	1505–1564.	
.23	Bale, John	1495–1563.	
.3	**Elizabethan, 1558–1625.**		
.31	Greene, Robert	1561–1592.	
.32	Marlowe, Christopher	1564–1593.	
.33	**Shakspere, William**	1564–1616.	
.34	**Jonson, Ben**	1574–1637.	
.35	**Beaumont, Francis and Fletcher, John**	1576–1625.	
.36	Webster, John	1582–1652.	
.37	Massinger, Philip	1584–1640.	
.38	Ford, John	1586–1639.	
.39	Minor Writers.		
.4	**Post-Elizabethan, 1625–1702.**		
.41	Davenant, Sir William	1605–1668.	
.42	Etherege, Sir George	1637–1688.	
.43	Crowne, John	1644–1699.	
.44	Wycherly, William	1640–1715.	
.45	Otway, Thomas	1651–1685.	
.46	**Congreve, William**	1670–1729.	
.47	Vanbrugh, Sir John	1666–1726.	
.48	Farquhar, George	1678–1707.	
.49	Minor Writers.		
.5	**Queen Anne,** Early 18th Century, **1702–1745.**		
.51	Dennis, John	1657–1734.	
.52	Southerne, Thomas	1660–1746.	
.53	Centlivre, Mrs. Susannah (Freeman)	1668–1723.	
.54	Cibber, Colley	1671–1757.	
.55	Rowe, Nicholas	1674–1718.	
.56	Gay, John	1688–1732.	
.57	Lillo, George	1693–1739.	
.58			
.59	Minor Writers.		
.6	**Later 18th Century, 1745–1800.**		
.61	Garrick, David	1716–1779.	
.62	Foote, Samuel	1721–1777.	
.63	Colman, George, the elder	1732–1794.	
.64	Home, John	1724–1808.	
.65	Cumberland, Richard	1732–1811.	
.66	**Sheridan, Richard Brinsley**	1751–1816.	See also 825.64.
.67	Inchbald, Mrs. Elizabeth (Simpson)	1753–1821.	
.68			
.69	Minor Writers.		
.7	**Early 19th Century, 1800–1837.**		
.71	Baillie, Joanna	1762–1851.	
.72	Knowles, James Sheridan	1784–1862.	
.8	**Victorian Period, 1837–**		

823 English Fiction.

.1 Early English, 1066–1400.

.2 Pre-Elizabethan, (More's Utopia,) 1400–1558.

.3 Elizabethan, (Lyly's Euphues,) 1558–1625.

.4 Post-Elizabethan, 1625–1702.

.41	Harrington, James	1611–1677.	
.42	Bunyan, John	1628–1688.	
.43	Mackenzie, George	1636–1691.	
.44	Behn, Aphra	1640–1689.	

.5 Queen Anne, 1702–1745.

.51	DeFoe, Daniel	1661–1731.	
.52	Fielding, Henry	1707–1754.	

.6 Later 18th Century, 1745–1800.

.61	Richardson, Samuel	1689–1761.	
.62	Sterne, Laurence	1713–1768.	
.63	Smollett, Tobias George	1721–1771.	
.64	Goldsmith, Oliver	1728–1774.	See also 821.64 and 824.66.
.65	Mackenzie, Henry	1745–1831.	
.66	Arblay, Frances (Burney), madame d'	1752–1840.	
.67			
.68			
.69	Minor Writers.		

.7 Early 19th Century, 1800–1837.

.71	Lewis, Matthew Gregory	1775–1818.	
.72	Edgeworth, Maria	1767–1849.	
.73	Scott, Sir Walter	1771–1832.	See also 821.74.
.74	Austen, Jane	1775–1817.	
.75	Porter, Jane	1776–1850.	
.76	Peacock, Thomas Love	1785–1866	
.77	Galt, John	1779–1839.	
.78	Marryat, Frederick	1792–1848.	
.79	Minor Writers.		

.8 Victorian Period, 1837–

.81	Brontë, Charlotte	1816–1855.	
.82	Thackeray, William Makepeace	1811–1863.	
.83	Dickens, Charles	1812–1870.	
.84	Lytton, Edw. Geo. Bulwer, 1st baron	1803–1873.	
.85	Kingsley, Charles	1819–1875.	
.86	Beaconsfield, Benjamin Disraeli, 1st earl of	1805–1881.	
.87	Trollope, Anthony	1815–1882.	
.88	Eliot, George	1819–1880.	
.89	Minor Writers.		

824 English Essays.

.3 Elizabethan, (Bacon,) 1558–1625.

.4 Post-Elizabethan, (Locke), 1625–1702.

.5 Queen Anne, 1702–1745.

.51	Shaftsbury, Anthony Ashley Cooper, 3d earl of	1671–1713.	
.52	Addison, Joseph	1672–1719.	
.53	Steele, Sir Richard	1671–1729.	
.54	Budgell, Eustace	1686–1737.	
.55			
.56			
.57			
.58			
.59			

.6 Later 18th Century, 1745–1800.

.61	Moore, Edward	1712–1757.	
.62	Kames, Henry Home, lord	1696–1782.	
.63	Johnson, Samuel	1709–1784.	
.64	Hume, David	1711–1776.	See also 192.4.
.65	Hawkesworth, John	1715–1773.	
.66	Goldsmith, Oliver	1728–1774.	See also 821.64 and 823.64.
.67	Gibbon, Edward	1737–1794.	
.68			
.69	Minor Writers.		

.7 Early 19th Century, 1800–1837.

.71	Mackintosh, Sir James	1765–1832.
.72	Smith, Sydney	1771–1845.
.73	Jeffrey, Francis, lord	1773–1850.
.74	Brougham, Henry, 1st baron	1778–1868.
.75	Lamb, Charles	1775–1834.
.76	Hazlitt, William	1778–1830.
.77	Hunt, Leigh	1784–1859.
.78		
.79	Minor Writers.	

.8 Victorian Period, 1837–.

.81	De Quincey, Thomas	1785–1859.
.82	Carlyle, Thomas	1795–1881.
.83	Macaulay, Thomas Babington, 1st baron	1800–1859.
.84	Helps, Sir Arthur	1817–1875
.85	Arnold, Matthew	1822–88
.86	Ruskin, John	1819–
.87		
.88		
.89	Minor Writers.	

825 English Oratory. For Speakers see 808.5.

Subdivided by periods like 821.

.6 Later 18th Century, 1745–1800.

.61	Chatham, William Pitt, 1st earl of	1708–1778.	
.62	**Burke, Edmund**	1729–1797.	
.63	Fox, Charles James	1749–1806.	
.64	**Sheridan, Richard Brinsley**	1751–1816.	See also 822.66.
.65	Grattan, Henry	1750–1820.	
.66	Pitt, William	1759–1806.	

826 English Letters.

Subdivided by periods like 821.

.2 Pre-Elizabethan, (Paston Letters,) 1400–1558.

.5 Queen Anne, 1702–1745.

.51	Montagu, Lady Mary (Pierrepont) Wortley	1690–1762.
.52	Chesterfield, Philip Dormer Stanhope, 4th earl of	1694–1773.
.53		

.6 Later 18th Century, 1745–1800.

.61	Orford, Horace Walpole, 4th earl of	1717–1797.
.62	Montagu, Mrs. Elizabeth (Robinson)	1720–1800.

827 English Satire and Humor.

.2 Pre-Elizabethan, 1400–1558.

.21	Barclay, Alexander	1475–1552.

.3 Elizabethan, 1558–1625.

.31	Gascoigne, George	1537–1577.
.32	Harington, Sir John	1561–1612.
.33	Hall, Joseph	1574–1656.
.34	Marston, John	1575–1634.
.35	Donne, John	1573–1631.
.36		
.37		
.38		
.39		

.4 Post-Elizabethan, 1625–1702.

.41	Wither, George	1588–1667.
.42	**Butler, Samuel**	1612–1680
.43	Marvell, Andrew	1620–1678.
.44	D'Urfey, Thomas	1625–1723.
.45	Oldham, John	1653–1683.
.46	Brown, Thomas	1663–1704.
.47	King, William	1663–1712.
.48	Garth, Sir Samuel	1665–1719.
.49	Minor Writers.	

827.5 **Queen Anne, 1702–1745.**

.51	Ward, Edward	1667–1731.	
.52	**Swift, Jonathan**	1667–1745.	
.53	Mandeville, Bernard de	1670–1733.	
.54	Arbuthnot, John	1675–1735.	
.55	**Pope, Alexander**	1688–1744.	See also 821.53.
.56			
.57			
.58			

.6 **Later 18th Century, 1745–1800.**

.61	Churchill, Charles	1733–1765.
.62	Amory, Thomas	1691–1788.
.63	Whitehead, Paul	1710–1774.
.64	Junius	1679–1772.
.65	Wolcott, John (pseud. Peter Pindar.)	1738–1819.
.66		
.67		
.68		

.7 **Early 19th Century, 1800–1837.**

.71	Gifford, William	1757–1826.
.72	Hood, Thomas	1798–1845.
.73		
.74		
.75		
.76		

.8 **Victorian, 1837–**

.81	Jerrold, Douglas	1803–1857.
.82		
.83		
.84		
.85		
.86		

828 English Miscellany.

Anecdotes, Ana, Epigrams, Quotations, etc., if illustrative of any special subject (e. g., biography, history, science, art), go with that subject. If general they go in 828; if limited to any period, they take the same divisions as 821. For Riddles, see 398.6; Proverbs, see 398.9. The same rule applies to other languages in 838, 848, etc.

829 Anglo-Saxon Literature.

.1 **Poetry.**

.2 Cædmon.

.3 Beowulf.

.4 Cynewulf.

.5 **Homilies and Religious.**

.6 Ælfric.

.7 **Alfred the Great.**

.8 **Miscellaneous.**

.9 **Historical and Biographical.**

830 German Literature.

830.1, Philosophy; .2, Compends; .3, Dictionaries; .4, Essays, Lectures, and Addresses on German Literature; .5, Periodicals; .6, Societies; .7, Study and Teaching; .8, Collections; .9, History.

831 German Poetry.

.02, Dramatic; .03, Romantic and Epic; .04, Lyric, Ballads; .05, Didactic; .06, Descriptive; .07, Satirical and Humorous; .09, History of German Poetry.

.1 Before the Crusades, -1150.

.11 "Hildebrandslied."
.12 Otfried.
.13 "Ludwigslied."
.14 "Muspilli."

.2 Middle High, 1150-1300.

.21 "Nibelungenlied."
.22 "Gudrun," and minor folk epics.
.23 Heinrich von Veldeke -1200. See also 839.311 2.
.24 Wolfram von Eschenbach.
.25 Gottfried von Strassburg.
.26 Hartmann von Aue 1170-1220.
.27 Walther von der Vogelweide 1170-1230.
.28 Ulrich von Lichtenstein 1199-1276.
.29 Minor Writers.

.3 Period of Decline, 1300-1517.

31 Horneck, Ottokar von.
32 Hadamar von Laber.
33 Hermann von Sachsenheim -1458.
.34 Büheler, Hans. "Die sieben weisen Meister," 1414-
.35 Kaspar von der Röhn. "Das Heldenbuch."
.36 "Theuerdank."
.37 "Die Haimonskinder."
.38 Mastersingers.
.39 Minor Writers.

.4 Reformation. New High, 1517-1625.

.41 Agricola, Martin 1486-1556.
42 Waldis, Burkard 1490-1558.
.43 Alberus, Erasmus 1500-1553.
.44 Sachs, Hans 1494-1576.
.45 Ringwaldt, Bartholomäus 1530-1599.
.46 Rollenhagen Georg 1542-1609.
.47 Andreä, Johann Valentin 1586-1654.

.5 Period of Imitation, 1625-1750.

[The Silesian Schools.]

.51 Opitz von Boberfeld, Martin 1597-1639.
.52 Flemming, Paul 1609-1640.
.53 Logau, Friedrich von 1604-1655.
.54 Gerhardt, Paul 1607-1676.
.55 Hofmannswaldau, Christian Hofmann von 1618-1679.
.56 Zesen, Philipp von 1619-1689.
.57 Brockes, Barthold Heinrich 1680-1747.
.58 Bodmer, Johann Jakob 1698-1783.
.59 Minor Writers.

831.6 **Classic Period, 1750–1830.**

[For Göthe and Schiller, see 832.6.]

.61	Gellert, Christian Fürchtegott	1715–1769.
.62	**Klopstock, Friedrich Gottlieb**	1724–1803.
.63	Bürger, Gottfried August	1748–1794.
.64	**Herder, Johann Gottfried von**	1744–1803.
65	Voss, Johann Heinrich	1751–1826.
66	Körner, Karl Theodor	1791–1813.
67	Hölderlin, Johann Christian Friedrich	1770–1843.
68	Platen Hallermünde, August, graf von	1796–1835.
.69	Minor Writers.	

.7 **Post-Classic Period, 1830–1856.**

.71	Arndt, Ernst Moritz	1769–1860.
.72	Eichendorff, Joseph, freiherr von	1788–1857.
.73	Uhland, Johann Ludwig	1787–1862.
.74	Rückert, Friedrich	1789–1866.
.75	**Heine, Heinrich**	1799–1856.
.76	Niembsch von Strehlenau, Nikolaus	1802–1850.
.77	Auersperg, Anton Alexander, graf von	[Anastasius Grün.] 1806–1881.
.78	Freiligrath, Ferdinand	1810–1876.
.79	Minor Writers.	

.8 **Later 19th Century, 1856–**

.81	Schefer, Leopold	1784–1862.
.82	Kinkel, Johann Gottfried	1815–1882.
.83	Geibel, Emanuel	1815–1884.
.84	Bodenstedt, Friedrich Martin	1819–1892.
.85		
.86		
.87		
.88		
.89	Minor Writers.	

832 German Drama.

.5 **Period of Imitation, 1625–1750.**

.51	Gryphius, Andreas	1616–1664.
.52	Lohenstein, Daniel Caspar	1635–1683.
.53	Weise, Christian	1642–1708.
.54	Gottsched, Johann Christoph	1700–1776.
.55	Gottsched, Luise Adelgunde Victorie (Culmus)	1713–1762.

.6 **Classic Period, 1750–1830.**

.61	**Lessing, Gottlob Ephraim**	1729–1781.
.62	**Göthe, Johann Wolfgang von**	1749–1832.
.63	**Schiller, Johann Christoph Friedrich**	1759–1805.
.64	Klinger, Friedrich Maximilian	1753–1831.
.65	Iffland, August Wilhelm	1759–1814.
.66	Kotzebue, August Friedrich Ferdinand von	1761–1819.
.67	Werner, Friedrich Ludwig Zacharias	1768–1823.
.68	Kleist, Heinrich Bernt Wilhelm von	1777–1811.
.69	Minor Writers.	

832.7 **Post-Classic Period, 1830–1856.**

.71 Grabbe, Christian Dietrich 1801–1836.
.72 Griepenkerl, Wolfgang Robert 1810–1836.
.73 Grillparzer, Franz 1791–1872.
.74 Birch-Pfeiffer, Charlotte 1800–1868.
.75 Münch-Bellinghausen, Eligius Franz Joseph. [Friedrich Halm.] 1806–1866.
.76 Laube, Heinrich 1806–84
.77 Hebbel, Friedrich 1815–1863.
.78 Gutzkow, Karl Ferdinand 1811–1878.
.79 Minor Writers.

.8 **Later 19th Century, 1856–**

.81 Benedix, Julius Roderich 1811–1873.
.82 Mosenthal, Salomon Hermann 1821–1877.
.83 Brachvogel, Albert Emil 1824–1878.
.84 Gottschall, Karl Rudolph 1823–
.85 Lindau, Paul 1839–
.89 Minor Writers.

833 German Fiction.

.5 **Period of Imitation, 1625–1750.**

.51 Buchholtz, Andrew Heinrich 1607–1671.
.52 Grimmelshausen, Hans Jakob Christoffel von 1625–1676.
.53 Anselm, Heinrich 1653–1697.
.54 "Robinsonaden."
.55 "Der Neue Amadis."

.6 **Classic Period, 1750–1830.**

.61 Wieland, Christoph Martin 1733–1813.
.62 Richter, Jean Paul Friedrich 1763–1825.
.63 Hardenberg, Friedrich von [Novalis] 1772–1801.
.64 Hoffmann, Ernst Theodor Wilhelm 1776–1822.
.65 La Motte Fouqué, Friedrich H; C; 1777–1843.
.66 Arnim, Ludwig Achim von 1781–1831.
.67 Hauff, Wilhelm 1802–1827.
.68 Chamisso, Adelbert von 1781–1838.
.69 Minor Writers.

.7 **Post-Classic Period, 1830-1856.**

.71 Zschokke, Johann Heinrich Daniel 1771–1848.
.72 Brentano, Clemens 1778–1842.
.73 Tieck, Ludwig 1773–1853.
.74 Postl, Karl [Charles Sealsfield] 1793–1864.
.75 Häring, Wilhelm [Wilibald Alexis] 1798–1871.
.76 Hahn-Hahn, Ida, gräfin von 1805–1880.
.77 Gerstäcker, Friedrich 1816–1872.
.78 Hackländer, Friedrich Wilhelm 1816–1877.
.79 Minor Writers.

.8 **Later 19th Century, 1856–**

.81 Auerbach, Berthold 1815–1882.
.82 Freytag, Gustav 1816–1895.
.83 Scheffel, Joseph Viktor von 1826–1896.
.84 Spielhagen, Friedrich 1829–
.85 Heyse, Paul Johann Ludwig 1830–
.86 Ebers, Georg 1837–1898.
.89 Minor Writers.

834 German Essays. Subdivided by periods like 831.

835 German Oratory. " "

836 German Letters. " "

837 German Satire and Humor.

.2 **Middle High. Minnesingers, 1150–1300.**

.21 [Stricker, Der.] "Der Pfaffe Amis" und "Beispiele."

.22 "Salomon und Morolf."

.3 **Period of Decline, 1300–1517.**

.31 "Reineke Vos." See also 839.371.

.32 Brant, Sebastian 1458–1521.

.4 **Reformation. New High, 1517–1625.**

.41 Murner, Thomas "Tyll Eulenspiegel." 1475–1537.

.42 Fischart, Johann 1550–1589.

.5 **Period of Imitation, 1625–1750.**

.51 Moscherosch, Johann Michael 1601–1669.

.52 Rachel, Joachim 1618–1669.

.53 Wernicke, Christian 1660–1720.

.54 Liscow, Christian Ludwig 1701–1760.

.6 **Classic Period, 1750–1830.**

.61 Rabener, Gottlieb Wilhelm 1714–1771.

.62 Blumauer, Aloys 1755–1798.

838 German Miscellany. See 828, note.

839 Minor Teutonic Literatures.

Subdivided by form, Poetry, Drama, etc., like 830.

.1 **Low German.**

.2 **Frisian. Old Saxon.**

.3 **Dutch Literature. Flemish.**

.31 Dutch Poetry.

.311 **Middle Ages.** 1200–1450.

[.1, Jacob van Maerlant 1235–1291; (.2, Heinrije van Veldeke 1200, see 831.23;) .3, Jan I. van Brabant 1250–1294; .4, Melis Stoke 1310; .5, Dirc Potter 1428.]

.312 **Chambers of Rhetoric.** 1450–1600.

[.1, Antonius de Rovere 1482; .2, Anna Bijns 1500; .3, Matthijs de Castelein 1488–1548; .4, Cornelis Everaert 1550; .5, Jan Baptist Houwaert 1533–1599; .6, Dirk Volkerszoon Coornhert 1522–1590; .7, Philipp Marnix 1538–1598; .8, Cornelis van Ghistele 1600; .9, Minor Writers.]

.313 **Period of the Republic.** 1600–1700.

[.1, **Jacob Cats**, 1577–1660; .2, **Joost van der Vondel** 1587–1679; .3, Marie Tesselschade Visscher 1594–1649; .4, **Constantijn Huygens** 1596–1687; .5, Reyer Anslo 1626–1669; .6, Geraert Brandt 1626–1685; .7, Jan Antoniszoon van der Goes (Antonides) 1647–1684; .9, Minor Writers.]

.314 **Poetical Societies.** 1700–1800.

[.1, Lucas Rotgans 1654–1710; .2, Hubert Corneliszoon Poot 1689–1733; .3, Arnold Hoogvliet 1687–1763; .4, Sybrand Feitama 1694–1758; .5, Willem van Haren 1710–1768; .6, Jacob Bellamy 1757–1786; .7, Hieronymus van Alphen 1746–1803; .9, Minor Writers.]

.315 **Modern Period.** 1800–

[.1, Willem Bilderdijk 1756–1831; .2, Jan Frederik Helmers 1767–1813; .3, Cornelis Loots 1765–1834; .4, Hendrik Tollens 1780–1856; .5, Isaac da Costa 1798–1860; .6, Jan Jacob Lodewijk ten Kate 1819–; .9, Minor Writers.]

839.32 Dutch Drama.

.323 **Period of the Republic.** 1600–1700.

[.1, **Gerbrand Adriaenszoon Bredero** 1585–1618; .2, **Corneliszoon Hooft** 1581–1647; .3, Samuel Costa 1580–1650; .4, Jan Vos 1620–1667; .5, Guillelmus Ogier 1619–1689; .6, Joachim Oudaan 1628–1692; .9, Minor Writers.]

.324 **Poetical Societies.** 1700–1800.

[.1, Pieter Langendijk 1683–1756; .2, Andries Pels; .3, Balthasar Huydecoper 1695–1778; .4, Onno Zwier van Haren 1713–1779; .5, Jan Nomsz 1738–1803; .9, Minor Writers.]

.325 **Modern Period.** 1800–

[.1, Samuel Iperuszoon Wiselius 1769–1845; .2, Helvetius van den Bergh 1795–1865; .3, Hendrik Jan Schimmel 1824–.]

839.33 Dutch Fiction.

.334 **Poetical Societies.** 1700–1800.

[.1, Elisabeth Bekker Wolff 1738–1804; .2, Agatha Deken 1741–1804; .3, Rhijnvis Feith 1753–1824.]

335 **Modern Period.** 1800–

[.1, Adriaan Loosjes 1761–1818; .2, Jacob Vosmaer 1783–1834; .3, Jan Frederik Oltmans 1802–1854; .4, Jacob van Lennep 1802–1868; .5, **Hendrik Conscience** 1812–1883; .6, Anna Louisa Geertruida Bosboom-Toussaint 1812–.]

839.34 Dutch Essays.

.344 **Poetical Societies.** 1700–1800.

[Justus Van Effen 1684–1735.]

.345 **Modern Period.** 1800–

[.1, Johannes Henricus van der Palm 1763–1840; .2, Reinier Cornelis Bakhuizen van den Brink 1810–1865; 3, Everhardus Johannes Potgieter 1808–1875; .4, Nicolas Beets 1814–; .5, Coenraad Busken Huet 1826–1886.]

839.37 Dutch Satire and Humor.

.371 **Middle Ages.** 1200–1450.

[**Reinaert** (van den vos Reinaerde) see 837.31.]

.374 **Poetical Societies.** 1700–1800.

[Arend Simonszoon Fokke 1755–1812.]

839.38 Dutch Miscellany.

The subdivisions of 8 show the leading writers in other branches of knowledge. In classification books are placed with their subjects, Theology, History, etc.

.381 **Middle Ages.** 1200–1450.

[Jan van Boendale (Jan de Clerc), *Chronicles*, 1280–1365.]

.384 **Poetical Societies.** 1700–1800.

[Simon Stijl, *History*, 1731–1804; Jan Wagenaar, *History*, 1709–1773.]

.4 Platt Deutsch.

.5 Scandinavian.

.6 Old Norse. Icelandic. Faroese.

839.7 Swedish Literature.

.71 Swedish Poetry.

.711 **Middle Ages.** 1200–1520.

[.1, Nicolaus Hermanni 1391; .2, Bishop Tomas 1443; .3, **Ericus Olai** 1486; .4, **Ballads** (Folkvisor).]

.712 **Reformation.** 1520–1640.

[.1, Olaus Petri 1497–1552; .2, Laurentius Petri 1499–1573.]

.713 **Age of Stjernhjelm.** 1640–1740.

[.1, **Georg Stjernhjelm** 1598–1672; .2, Lars Johansson (Lucidor) 1640–1674; .3, Haquin Spegel 1645–1714; .4, Israel Holmström 1660–1708; .5, Gunno Eurelius Dahlstjerna 1661–1709; .6, Johan Runius 1679–1713; .7, Jacob Frese 1691–1729; .8, Samuel von Triewald 1688–1743; .9, Minor Writers.]

.714 **Age of Dalin.** 1740–1780.

[.1, Olof Carelius 1758; .2, **Olof von Dalin** 1708–1763; .3, Hedvig Charlotta Nordenflycht 1718–1763; .4, Anders Odel 1718–1771; .5, Gustaf Filip Creutz 1729–1785; 6, Gustaf Fredrik Gyllenborg 1731–1808; .7, Olof Bergklint 1733–1805; .9, Minor Writers.]

.715 **Age of Gustavus.** 1780–1800

[.1, **Karl Mikael Bellman** 1740–1795; .2, Johan Henrik Kellgren 1751–1795; .3, Bengt Lidner 1757–1793; .4, Johan Gabriel Oxenstjerna 1750–1818; .5, Tomas Thorild 1759–1808; .6, Anna Maria Lenngren 1754–1817; .7, Karl Gustaf af Leopold 1756–1829; .8, Frans Mikael Franzén 1772–1847; .9, Minor Writers.]

.716 **Modern Period.** 1800–

[.1, Per Henrik Ling 1776–1839; .2, Johan Olof Wallin 1779–1839; .3, **Esaias Tegnér** 1782–1846; .4, Erik Johan Stagnelius 1793–1823; .5, Per Daniel Amadeus Atterbom 1790–1855; .6, Karl Jonas Ludwig Almqvist 1793–1866; .7, Johan Ludvig Runeberg 1804–1877; .8, Karl Vilhelm Böttiger 1807–1879; .9, Minor Writers.]

839.72 Swedish Drama.

.722 **Reformation.** 1520–1640.

[.1, Johan Messenius 1579–1637; .2, Magnus Olai Asteropherus –1647; .3, Andreas Johannis Prytz 1590–1655.]

.723 **Age of Stjernhjelm.** 1640–1740.

[Isak Börk –1701.]

.725 **Age of Gustavus.** 1780–1800.

[.1, Karl Israel Hallman 1732–1800; .2, Gustaf III. (King) 1746–1792; .3, Olof Kexél 1748–1796; .4, Karl Envallsson 1756–1806.]

.726 **Modern Period.** 1800–

[.1, Johan Börjesson 1790–1866; .2, Bernhard von Beskow 1796–1868; .3, August Teodor Blanche 1811–1868; .4, Johan Kristofer Jolin 1818–1884; .5, Frans Hedberg 1828–; .6, Per Johan Edvard Bäckström 1841–.]

839.73 Swedish Fiction.

.734 **Age of Dalin.** 1740–1780.

[.1, Jakob Henrik Mörk 1714–1763; .2, Jakob Vallenberg 1746–1778.]

.736 **Modern Period.** 1800–

[.1, Sofia Margareta von Knorring 1797–1848; .2, Magnus Jakob Crusenstolpe 1795–1865; .3, Fredrika Bremer 1801–1865; .4, Karl Anton Wetterberg (Onkel Adam) 1804–; .5, Emilie Flygare Carlén 1807–1892; .6, Zakris Topelius 1818–1898; .7, Viktor Rydberg 1829–1895; .9, Minor Writers.]

839.74 Swedish Essays.

.746 **Modern Period.** 1800–

[.1, Benjamin Karl Henrik Höijer 1767–1812; .2, Lorenzo Hammarsköld 1785–1827; .3, Bernhard Elis Malmström 1816–1865; .4, Karl Julius Lénström 1811–; .5, Gustaf Håkan Jordan Ljunggren 1825–; .6, Karl Rupert Nyblom 1832–.]

839.77 Satire and Humor.

.776 **Modern Period.** 1800–

[.1, Johan Anders Wadman 1777–1837; .2, Erik Sjöberg (Vitalis) 1794–1828; .3, Kristian Erik Fahlcrantz 1790–1866; .4, Vilhelm August Detlof von Braun 1813–1860; .5, Gunnar Wennerberg 1817–.]

839.78 Swedish Miscellany.

The subdivisions of 8 show the leading writers in other branches of knowledge. In classification books are placed with their subjects, Theology, History, etc.

.781 **Middle Ages.** 1200–1520.

[Canon Mattias, *Bible Translation*, –1350; Peder Månsson, *Encyclopedia*, –1534.]

.782 **Reformation.** 1520–1640.

[.1, Peder Andersson Svart, *History*, –1562; .2, Erik Göransson Tegel, *History*, 1580–1636; .3, Ægidius Girs, *History*, 1580–1639; .4, Gustavus Adolphus (King), *History*, 1594–1632.]

.783 **Age of Stjernhjelm.** 1640–1740.

[.1, Olof Rudbeck, *Medicine*, 1630–1702; .2, Urban Hjärne 1641–1724; .3, Johan Peringskjöld, *History*, 1654–1720; .4, Anders Rydelius, *Philosophy*, 1671–1738; .5, Anders Celsius, *Astronomy*, 1701–1744; .6, Emanuel Svedenborg, *Theology*, 1688–1772.]

.784 **Age of Dalin.** 1740–1780.

[.1, Karl Gustaf Tessin, *History*, 1695–1770; .2, Karl von Linné, *Botany*, 1707–1778; .3, Johan Ihre, *Philology*, 1707–1780; .4, Sven Lagerbring, *History*, 1707–1787; .5, Anders Johan von Höpken, *History*, 1712–1789; .6, Olof Celsius, *History*, 1716–1794; .7, Anders af Botin, *History*, 1724–1790; .8, Torbern Olof Bergman, *Chemistry*, 1735–1784; Karl Vilhelm Scheele, *Chemistry*, 1742–1786.]

.786 **Modern Period.** 1800–

[.1, Erik Gustaf Geijer, *History*, 1783–1847; .2, Anders Magnus Strinnholm, *History*, 1786–1862; .3, Anders Fryxell, *History*, 1795–1881; .4, Frederik Ferdinand Carlson, *History*, 1811–1887.]

839.8 Danish and Norwegian Literature.

.81 Danish and Norwegian Poetry.

811 **Middle Ages.** 1100–1500.

[.1, Anders Sunesen; .2, Ballads (Kjæmpeviser).]

.812 **Reformation.** 1500–1560.

[Hans Tavsen 1494–1561.]

.813 **Learned Period.** 1560–1700.

[.1, Anders Arrebo 1587–1637; .2, Anders Bording 1619–1677; .3, Peder Syv 1631–1702; .4, Thomas Kingo 1634–1703; .5, Peder Dass 1647–1708; .6, Dorthe Engelbrektsdatter 1635–1716; .7, Sören Ter Kelsen 1661; .8, Jacob Vorm 1642–1693.]

.814 **Age of Holberg.** 1700–1750.

[.1, Jörgen Sorterup 1662–1723; .2, Töger Reenberg 1656–1742; .3, Kristian Falster 1690–1752; .4, Hans Adolph Brorson 1694–1764; .5, Ambrosius Stub 1705–1758; .6, Kristian Frederik Wadskjær 1712–1779.]

839.815 **Period of Enlightenment.** 1750–1800.

[.1, Kristian Braunmann Tull n 1728–1765; .2, **Johannes Evald** 1743–1781; .3, **Johan** Herman Vessel 1742–1785; .4, Edvard Storm 1749–1794; .5, **Kristen Henriksen** Pram 1756–1821; .6, Jens Baggesen 1764–1826; .7, **Knud Lyne Rahbek** 1670–1830; .8, Malte Konrad Bruun 1775–1826; .9, Minor Writers.]

.816 **Modern Period.** 1800–

[.1, **Adam Gottlob Oehlenschläger** 1779–1850; .2, **Bernhard Severin Ingemann** 1789–1862; .3, **Nicolai Frederik Severin Grundtvig** 1783–1872; .4, **Johannes Carsten Hauch** 1790–1871; .5, **Henrik Wergeland** 1808–1845; .6, **Ludvig Bödtcher** 1793–1874; .7, **Frederik Paludan-Müller** 1809–1876; .8, **Carl Ploug** 1813–1894; .9, Minor Writers.]

839.82 Danish and Norwegian Drama.

.823 **Learned Period.** 1560–1700.

[.1, Hieronimus Justesen Rauch 1539–1607; .2, Hans Kristensen Sthen 1544–1603; .3, Peder Jensen Hegelund 1542–1614; .4, Hans Thomsen Stege; 5, Jens Lönberg 1663–1700.]

.824 **Age of Holberg.** 1700–1750.

[.1, **Ludvig Holberg** 1684–1754.]

.825 **Period of Enlightenment.** 1750–1800.

[.1, Charlotte Dorothea Biehl 1731–1788; .2, Johan Nordal Bruun 1745–1816; .3, **Ole** Johan Samsöe 1759–1796; .4, Enevold Falsen 1755–1808; .5, Thomas Thaarup 1749–1821; .6, Kristian Levin Sander 1756–1819; .7, Olaf Kristian Olufsen 1764–1827; .8, Peter Andreas Heiberg 1758–1841; .9, Minor Writers.]

.826 **Modern Period.** 1800–

[.1, Caspar Johannes Boye 1791–1853; .2, Johan Ludvig Heiberg 1791–1860; .3, **Henrik Hertz** 1798–1870; .4, **Thomas Overskou** 1798–1873; .5, **Christian Knud** Frederik Molbech 1821–1888; .6, **Henrik Ibsen** 1828–.]

839.83 Danish and Norwegian Fiction.

.836 **Modern Period.** 1800–

[.1, Thomasine Christine Gyllembourg-Ehrensvärd 1773–1856; .2, **Steen** Steensen Blicher 1782–1848; .3, Christian Winther 1796–1876; .4, **Hans Christian Andersen** 1805–1875; .5, **Meyer Aaron Goldschmidt** 1819–1887; .6, Holger Drachmann; .7, **Björnstjerne Björnson** 1832–.]

839.84 Danish and Norwegian Essays.

.845 **Period of Enlightenment.** 1750–1800.

[Rasmus Nyerup 1759–1829.]

.846 **Modern Period.** 1800–

[.1, Niels Mathias Petersen 1781–1862; .2, Sören **Aaby Kjérkegaard** 1813–1855; .3, Rudolph Keyser 1803–1864; .4, Peter Andreas Munch 1810–1863; .5, **Johan** Sebastian Cammermeyer Welhaven 1807–1873; .6, **Georg Brandes** 1842–.]

839.87 Danish and Norwegian Satire and Humor.

.875 **Period of Enlightenment.** 1750–1800.

[.1, Peder Magnus Trojel 1743–1796; .2, Peder Koford Trojel 1754–1784; .3, **Thomas** Kristoffer Bruun 1750–1834.]

839.88 Danish and Norwegian Miscellany.

The subdivisions of 8 show the leading writers in other branches of knowledge. In classification books are placed with their subjects, Theology, History, etc

.881 **Middle Ages.** 1100–1500.

[.1, Saxo (Longus) Grammaticus, *History*, –1208; .2, Svend Aagesen, *History*.]

.882 **Reformation.** 1500–1560.

[.1, Kristiern Pedersen, "*The Father of Danish Literature*," 1480–1554; .2, Povel Eliesen, *Sermons*, 1480–; .3, Hans Mikkelsen, *Bible Translation*, –1532; .4, Peder Plade (Palladius) 1503–1560; .5, Henrik Smith, *Medicine*, –1563.]

.883 **Learned Period.** 1560–1700.

[**History**: Hans Svaning 1508–1584; Anders Sörensen Vedel 1542–1616; Peder Klausen 1545–1614; Arild Hvi feld 1549–1609; Klaus Lyskander 1558–1623; Ole Worm 1588–1654; Peder Resen 1625–1688.]

[**Theology**: Niels Hemmingsen 1513–1600; Holger Rosenkranz 1574–1642; Jesper Brochmand 1585–1652.]

[**Science**: Tyge Brahe, *Astronomy*, 1546–1601; Kaspar Bartholin, *Medicine*, 1585–1629; Thomas Bartholin, *Anatomy*, 1616–1680; Ole Borch, *Medicine*, 1626–1690; Niels Stensen, *Anatomy*, 1638–1686; Ole Römer, *Astronomy*, 1644–1710.]

.884 **Age of Holberg.** 1700–1750.

[.1, Erik Pontoppidan, *History*, 1698–1764; .2, Jacob Langebek, *History*, 1710–1775; .3, Frederik Kristian Eilschov, , 1725–1750; .4, Gerhard Schöning, *History*, 1722–1780; 5, Peder Frederik Suhm, *History* 1728–1798.]

.9 Gothic.

840 French Literature.

840.1, Philosophy; .2, Compends; .3, Dictionaries; .4, Essays, Lectures, and Addresses on French Literature; .5, Periodicals; .6, Societies; .7, Study and Teaching; .8, Collections; .9, History.

841 French Poetry.

.02, Dramatic; .03, Romantic and Epic; .04, Lyric, Ballads; .05, Didactic; .06, Descriptive; .07, Satirical and Humorous; .09, History of French Poetry.

.1 Early French, 842–1400.

.11	**"Chanson de Roland."** "Chanson de Geste."	
.12	Wace, Robert.	
.13	Marie de France.	
.14	Chrestien de Troyes	–1191.
.15	Quesnes de Bethune	–1228.
.16	Thibaut 4th, comte de Champagne	1201–1253.
.17	Rutebeuf	1230–
.18	**"Roman de la Rose."**	
	Guillaume de Loris, 1195–1260. Jean de Meung, 1280–1320.	
.19	Minor Poets.	

.2 Transition Period, 1400–1500.

.21	Chartier, Alain	1386–1458.
.22	Orléans, Charles duc d'	1391–1465.
.23	Coquillart, Guillaume	1421–1510.
.24	Baude, Henri	1430–1495.
.25	Villon, François	1431–1485.
.26		
.27		
.28		
.29	Minor Poets.	

.3 Renaissance, 1500–1600.

.31	Daurat, Jean	1510–1588.
.32	Du Bellay, Joachim	1524–1560.
.33	Belleau, Remy	1528–1577.
.34	Ronsard, Pierre de	1524–1585.
.35	Thiard, Pontus de	1521–1605.
.36	Baïf, Jean Antoine de	1532–1589.
.37	Saluste du Bartas, Guillaume de	1544–1590.
.38	Desportes, Philippe	1546–1606.
.39	Minor Poets.	

.4 Classical Period, 1600–1715.

.41	Malherbe, François de	1555–1628.
.42	Maynard, François	1582–1646.
.43	Racan, Honorat de Bueil, marquis de	1589–1670.
.44	Chapelain, Jean	1595–1674.
.45	**La Fontaine, Jean de**	1621–1695.
.46	Deshoulières, Antoinette (du Ligier de la Garde), Madame	1637–1694.
.47	Chaulieu, Guillaume Amfrye de	1639–1720.
.48		
.49	Minor Poets.	

841.5 **18th Century, 1715–1789.**

.51	Rousseau, Jean Baptiste	1670–1741.	
.52	Racine, Louis	1692–1763.	
.53	Pompignan, Jean Jacques de Franc, marquis de	1709–1784.	
.54	Delille, Jacques	1738–1813.	
.55	Roucher, Jean Antoine	1745–1794.	
.56	Chénier, André Marie de	1762–1794.	
.57	Parny, Evariste Désiré Desforges, vicomte de	1753–1814.	
.58			
.59	Minor Poets.		

.6 **Revolution and Empire, 1789–1815.**

.61	Lebrun, Ponce Denis Écouchard	1729–1807.	
.62	Fontanes, Louis, marquis de	1757–1821.	
.63	Parseval Grandmaison, François Auguste	1759–1834.	
.64	Luce de Lancival, Jean Charles Julien	1764–1810.	
.65	Désaugiers, Marc Antoine Madeleine	1772–1827.	
.66	Campenon, François Nicolas Vincent	1772–1843.	
.67	Millevoye, Charles Hubert	1782–1816.	
.68			
.69	Minor Poets.		

.7 **Constitutional Monarchy, 1815–1848.**

.71	**Béranger, Pierre Jean de**	1780–1857.	
.72	Delavigne, Jean François Casimir	1793–1843.	See 842.72.
.73	Deschamps, Émile	1791–1871.	
.74	Lamartine, Alphonse Marie Louis de Prat de	1792–1869.	
.75	Reboul, Jean	1796–1864.	
.76	Vigny, Alfred Victor, comte de	1799–1863.	See 842.75.
.77	Musset, Louis Charles Alfred de	1810–1857.	See 842.76.
.78	**Hugo, Victor Marie, comte**	1802–1885.	See 842.78 and 84[illegible]
.79	Minor Poets.		

.8 **Later 19th Century, 1848–**

.81	Laprade, Pierre Marin Victor Richard de	1812–1883.	
.82	Dupont, Pierre	1821–1870.	
.83	Banville, Theodore Faullain de	1820–1891.	
.84	Sully-Prudhomme, René François Armand	1839–	
.85	Coppée, Francis Édouard Joachim	1842–	See 842.88.
.86	Deroulède, Paul	1846–	
.87			
.88			
.89	Minor Poets.		

842 French Drama.

.1 **Early French, 842–1400.**

.11	Mysteries and Miracles.	
.12	Adam de la Halle	1240–1286.
.13	Bodel, Jean.	
.14		
.15		
.16		
.17		
.18		
.19	Minor Dramatists.	

842.2 Transition Period, 1400–1500.

.21	Gresban, Arnoul.		
.22	Michel, Jean	–1493.	
.23	Gringoire, Pierre	1480–1544.	
.24			
.25			
.26			
.27			
.28			
.29	Minor Dramatists.		

.3 Renaissance, 1500–1600.

.31	Le Coq, Thomas.		
.32	Baïf, Lazare de.		
.33	La Peruse, Jean Bastier de	1530–1555.	
.34	Jodelle, Étienne	1532–1573.	
.35	Grévin, Jacques	1538–1570.	
.36	La Taille, Jean de	1540–1608.	
.37	Garnier, Robert	1545–1601.	
.38	Larivey, Pierre de	1550–1612.	
.39	Minor Dramatists.		

.4 Classical Period, 1600–1715.

.41	**Corneille, Pierre**	1606–1684.	
.42	**Molière, Jean Baptiste Poquelin,** *called*	1622–1673.	
.43	Corneille, Thomas	1625–1709.	
.44	Boursault, Edme	1638–1701.	
.45	**Racine, Jean**	1639–1699.	
.46	Brueys, David Augustin de	1640–1723.	
.47	Dufresny, Charles Rivière	1648–1724.	
.48	Baron, Michel Boyron, *called*	1653–1729.	
.49	Minor Dramatists.		

.5 18th Century, 1715–1789.

.51	La Motte, Antoine Houdart de	1672–1731.	
.52	Crebillon, Prosper Jolyot de	1674–1762.	
.53	Destouches, Philippe Nericault	1680–1754.	
.54	Marivaux, Pierre Carlet de Chamblain de	1688–1763.	See 843.52.
.55	Piron, Alexis	1689–1773.	
.56	**Voltaire, François Marie Arouet de**	1694–1778.	See 843.54.
.57	Sédaine, Michel Jean	1719–1797.	
.58	Beaumarchais, Pierre Augustin Caron de	1732–1799.	
.59	Minor Dramatists.		

.6 Revolution and Empire, 1789–1815.

.61	Ducis, Jean François	1733–1816.	
.62	Collin-Harleville, Jean François	1735–1806.	
.63	La Harpe, Jean François de	1739–1803.	See 844.62.
.64	Fabre d'Églantine, Philippe François Nazaire	1755–1794.	
.65	Andrieux, François Guillaume Jean Stanislas	1759–1833.	
.66	Chenier, Marie Joseph	1764–1811.	
.67	Picard, Louis Benoît	1769–1828.	
.68	Lemercier, Louis Jean Népomucène	1771–1840.	
.69	Minor Dramatists.		

842.7 **Constitutional Monarchy, 1815–1848.**

.71	Soumet, Alexandre	1788–1845.	
.72	Delavigne, Jean François Casimir	1793–1843.	See 841.72.
.73	Scribe, Augustin Eugène	1791–1861.	
.74	Ancelot, Jacques Arsène François Polycarpe	1794–1864.	
.75	Vigny, Alfred Victor, comte de	1799–1863.	See 841.76.
.76	Musset, Louis Charles Alfred de	1810–1857.	See 841.77.
.77	**Dumas, Alexandre, the elder**	1806–1870.	See 843.76.
.78	**Hugo, Victor Marie, comte**	1802–1885.	See 841.78 and 843.78
.79	Minor Dramatists.		

.8 **Later 19th Century, 1848–**

.81	Labiche, Eugène Marin	1815-88	
.82	Ponsard, François	1824–1867.	
.83	Augier, Guillaume Victor Émile	1822–89	
.84	Dumas, Alexandre, fils	1824–1895.	
.85	Bornier, Henri de	1825–	
.86	Sardou, Victorien	1831–	
.87	Pailleron, Édouard	1834–	
.88	Coppée, Francis Édouard Joachim	1842–	See 841.85.
.89	Minor Dramatists.		

843 French Fiction.

.2 **Transition Period, 1400–1500.**

.21	Christine de Pisan	1363–1431.
.22	Jean de Tuim.	
.23	La Sale, Antoine de	1398–1462.
.24	Chastelain, Georges	1403–1475.
.25		
.26		
.27		
.28		
.29	Minor Writers.	

.3 **Renaissance, 1500–1600.**

.31	Marguerite de Navarre	1492–1549.
.32	Desperriers, Bonaventure	1500–1544.
.33	Herberay, Nicolas d'	–1552.
.34	Du Fail, Noël	–1585.
.35	Bouchet, Guillaume	1526–1606.
.36	Beroalde de Verville, François	1558–1612.
.37		
.38		
.39	Minor Writers.	

.4 **Classical Period, 1600–1715.**

.41	Urfé, Honoré d'	1568–1625.
.42	Gomberville, Marin Le Roy de	1600–1647.
.43	La Calprenède, Gauthier de Costes de	1602–1663.
.44	Scudéry, Georges de	1601–1667.
.45	Scudéry, Madeleine de	1607–1701.
.46	Cyrano de Bergerac, Savinien	1620–1655.
.47	Perrault, Charles	1628–1703.
.48	Lafayette, Marie Madeleine Pioche de la Vergne, comtesse de	1634–1693.
.49	Minor Writers.	

843.5 **18th Century, 1715–1789.**

.51	Le Sage, Alain René	1668–1747.	
.52	Marivaux, Pierre Carlet de Chamblain de	1688–1763.	See 842.54.
.53	Prevost d'Exiles, Antoine François	1697–1763.	
.54	**Voltaire, François Marie Arouet de**	1694–1778.	See 842.56.
.55	Crébillon, Claude Prosper Jolyot de, fils	1707–1777.	
.56	**Rousseau, Jean Jacques**	1712–1778.	
.57	Restif de la Bretonne, Nicolas Edme	1734–1806.	
.58	Florian, Jean Pierre Claris de	1755–1794.	
.59	Minor Writers.		

.6 **Revolution and Empire, 1789–1815.**

.61	St. Pierre, Jacques Henri Bernardin de	1737–1814.
.62	**Staël Holstein, Anne Louise Germaine (Necker), baronne de**	1766–1817.
.63	Constant de Rebecque, Henri Benjamin	1767–1830.
.64	Maistre, Xavier de	1763–1852.
.65	Chateaubriand, François Auguste René, vicomte de	1768–1848.
.66		
.67		
.68		
.69	Minor Writers.	

.7 **Constitutional Monarchy, 1815–1848.**

.71	Beyle, Marie Henri [de Stendhal]	1783–1842.	
.72	Nodier, Charles	1790–1844.	
.73	**Balzac, Honoré de**	1799–1850.	
.74	Sue, Marie Joseph, *called* Eugène	1804–1857.	
.75	Souvestre, Émile	1806–1854.	
.76	**Dumas, Alexandre, the elder**	1806–1870.	See 842.77.
.77	Gautier, Theophile	1811–1872.	
.78	**Hugo, Victor Marie, comte**	1802–1885.	See 841.78 and 842.78.
.79	Minor Writers.		

.8 **Later 19th Century, 1848–**

.81	Mérimée, Prosper	1803–1870.
.82	**Dudevant, Amantine Lucile Aurore Dupin [George Sand]**	1804–1876.
.83	Feuillet, Octave	1822–1890
.84	Flaubert, Gustave	1821–1881.
.85	Erckmann-Chatrian { Erckmann, Émile	1822–
	Erckmann-Chatrian { Chatrian, Alexandre	1826–1890
.86	About, Edmond François Valentin	1828–1885
.87	Cherbuliez, Victor	1832–
.88	Daudet, Alphonse	1840–1897.
.89	Minor Writers.	

844 French Essays.

.3 **Renaissance, 1500–1600.**

.31	**Montaigne, Michel Eyquem de**	1533–1592.

.4 **Classical Period, 1600–1715.**

.41	Du Vair, Guillaume	1556–1621.
.42	Saint-Évremond, Charles de Marguetel de Saint-denis de	1613–1703.

844.5 **18th Century, 1715–1789.**

.51 Fontenelle, Bernard le Bovier de 1657–1757.
.52 Montesquieu, Charles le Secondat, baron de 1689–1755.
.53 Alembert, Jean le Rond d' 1717–1783.

.6 **Revolution and Empire, 1789–1815.**

.61 La Harpe, Jean François de 1739–1803. See 842.69.
.62 Joubert, Joseph 1754–1824
.63 Courier de Méré, Paul Louis 1772–1825.
.64 Senancour, Étienne Pivert de 1770–1846.

.7 **Constitutional Monarchy, 1815–1848.**

.71 La Mennais, Hugues Félicité Robert de 1782–1854.
.72 Villemain, Abel François 1790–1870.
.73 Planche, Jean Baptiste Gustave 1808–1857.
.74 **Sainte Beuve, Charles Augustin** 1804–1869.
.75 Saint-Marc Girardin 1801–1873.
.76 Janin, Jules Gabriel 1804–1874.
.77 Nisard, Jean Marie Napoléon Désiré 1806–1888.

.8 **Later 19th Century, 1848–**

.81 Quinet, Edgar 1803–1875.
.82 Renan, Ernest 1823–1892.
.83 Taine, Hippolyte Adolphe 1828–1893.

845 French Oratory. Subdivided by periods, like 841.

846 French Letters. Subdivided by periods, like 841.

847 French Satire and Humor.

.1 **Early French, 842–1400.**

.11 Guyot de Provins.
.12 "Roman du Renard." See 837.31 and 839.371.
.13 Deschamps, Eustache 1320–1400.

.3 **Renaissance, 1500–1600.**

.31 Marot, Clement 1495–1544.
.32 **Rabelais, François** 1495–1553.
.33 "La Satyre Ménippée" 1594.
.34 Aubigné, Théodore Agrippa d' 1550–1630.
.35 Regnier, Mathurin 1573–1613.

.4 **Classical Period, 1600–1715.**

.41 Viau, Théophile de 1590–1626.
.42 Saint Amant, Marc Antoine Gérard 1594–1661.
.43 Scarron, Paul 1610–1660.
.44 Benserade, Isaac de 1612–1691.
.45 Furetière, Antoine 1620–1688.
.46 **Boileau Despréaux, Nicolas** 1636–1711.
.47 Regnard, Jean François 1655–1709.

.5 **18th Century, 1715–1789.**

.51 Gresset, Jean Baptiste Louis 1709–1777.
.52 Gilbert, Nicolas Joseph Laurent 1751–1780.

.7 **Constitutional Monarchy, 1815–1848.**

.71 Barthélemy, August Marseille 1796–1867.
.72 Barbier, Henri Auguste 1805–1882.

848 French Miscellany. Subdivided by periods, like 841.

849 Provençal Literature.

.1 Provençal poetry.

.11 1st Period. 900–1100.

Poetry in hands of clergy. No folk poetry preserved. Form mainly epic. Language not yet fixed. Country under rule of counts, nominally subject to Emperor, really independent till 1486, then reunited to France.

.111 Epic Poetry.

Boethius.

.112 Lyric Poetry.

.119 Minor poetry. Didactic.

12 Golden Age. 1100–1300.

Poets mainly knights, but after 1250 almost exclusively burghers. Lyric most important.

.121 Romances of Chivalry.

Girart de Rossilho.

.122 Historical Poetry.

Croisade contre les Albigeois.

.123 Romans d'Aventures.

Flamenca.

.124 Lyric Poetry.

.125 Bernart de Ventadorn flourished about 1140–1195.

.126 Born, Bertran de " " 1180–1195.

.127 Arnaut Daniel " " 1180–1200.

.128 Borneill, Guiraut de, " " 1175–1220.

.129 Minor poetry.

Nearly 500 poets named beside anonymous poems. Form prevails over content; great variety of poetic forms. These lyric poets are the real Troubadours.

.13 Aftermath 1300–1500.

Downfall of language and literature owing to lack of content and to political and social causes, especially the Crusade against the Albigenses.

.131 Poets of school of Toulouse.

Arnaut Vidal, first recipient of the Golden Violet, 1324. Poetry artificial—a craft Las Leys d'Amors is the code of poetic laws, by Guillem Molinier, Chancellor of "Consistory de la gaya sciensa" established at Toulouse 1324. First prize a golden violet. When in danger of perishing, Consistory revived in 1484 and poetic exercises styled "Jeux Floraux."

.132 La Noble Leyczon.

Religious poetry of Waldenses.

.139 Minor poetry.

.14 Decadence. 1500–

Provençal sinks to position of a dialect despite fitful attempts to revive it, the most recent, that connected with publication of Li Provençalo 1852.

.141 Goudouli, Pierre de 1579–1649.

.142 Despourrins, Cyprien 1698–1755.

.143 Jasmin, Jacques 1798–1864.

.144 Roumanille, Joseph 1818–

.145 Aubanel, Jos. Marie J. Baptiste Theodore 1829–

.146 Mistral, Frederic 1830–

.149 Minor poetry.

849.9 Catalan Literature.

.91 Catalan poetry.

.911 1st Period 1200–1350.

Catalonia before 1137 ruled by French Counts, then united to Aragon. Language is closely allied to Provencal, in which first poets wrote. MSS. scattered; few as yet printed; Literature begins with James 1st (1213-'76) who made Catalan the state language.

For Ramon Muntaner see 849.981.3.

.1, Raimon Lull 1225-1315; .2, Febler 1250; .9, Minor poets.

.912 Second Period. 1350–1450.

Imitation of Neo Provencal, French and Italian, specially of Dante, Petrarch and Boccacio. Some flashes of originality. Fra Rocaberti. Imitation of Dante.

.913 Age of Perfection 1450–

From 16th Century, Catalan literature merged in Spanish, tho some writers stil employ idiom, e. g. "Balaguer."

.1, March, Ausias -1460, greatest of Catalan poets; .2, Fenolla, Bernard; .3, Jacme Roig (satiric); .4, Farrer; .5, Serafi; .6, Pujol; .7, Garcia; .9, Minor Poets.

.93 Catalan Fiction.

.933 Age of Perfection 1450–

Joanet Martorel -1460. Tirant lo Blanch, a chivalric romance.

.98 Miscellany.

.981 1st Period. 1200–1350.

Prose superior to poetry. Chronicles of great importance, culminating in Muntaner.

.1, James 1st (The Conqueror) 1213-'76; .2, Desclot, Bernardo; .3, Muntaner, Ramon 1265-1340; .4, Ximenes; .9, Minor authors.

.982 Second period. 1350–1450

Prose resists foreign influences better than poetry. Many philosophical and theological writings beside historical works.

.1, Tomich; .2, Turell; .9, Minor writers.

850 Italian Literature.

850.1, Philosophy; .2, Compends; .3, Dictionaries; .4, Essays, Lectures, and Addresses on Italian Literature; .5, Periodicals; .6, Societies; .7, Study and Teaching; .8, Collections; .9, History.

851 Italian Poetry.

.02, Dramatic; .03, Romantic and Epic; .04, Lyric, Ballads; .05, Didactic; .06, Descriptive; .07, Satirical and Humorous; .09, History of Italian Poetry.

.1 Early Italian; Age of Dante, -1375

To death of Boccaccio, 1375.

.11	Protonotario, Stefano	-1250.	
.12	Arezzo, Guittone d'	-1294.	
.13	Guinicelli, Guido	-1276.	
.14	Cavalcanti, Guido	1260-1300.	
.15	**Alighieri, Dante**	1265-1321.	
.16	Pistoia, Cino da	1270-1336.	
.17	Uberti, Fazio degli	-1369.	
.18	**Petrarca, Francesco**	1304-1374.	
.19	Minor Poets.		

.2 Period of Classical Learning, 1375-1492.

From death of Boccaccio, 1375, to death of Lorenzo il Magnifico, 1492.

.21	Frezzi, Federigo	-1416.	
.22	Bojardo, Matteo	1430-1494.	
.23	**Medici, Lorenzo dei** (Il Magnifico)	1448-1492.	
.24	**Poliziano, Angelo**	1454-1494.	See 852.22.
.25	Berivieni, Girolamo	1453-1542.	
.26	Sannazzaro, Jacopo	1458-1530.	
.29	Minor Poets.		

.3 Age of Leo the Tenth, 1492-1542.

From death of Lorenzo il Magnifico, 1492, to Convocation of Council of Trent, 1542.

.31	Bembo, Pietro	1470-1547.	
.32	**Ariosto, Lodovico**	1474-1533.	
.33	Rucellai, Giovanni	1475-1526.	
.34	Molza, Francesco	1483-1544.	See 853.33.
.35	Tasso, Bernardo	1493-1569.	
.36	Alamanni, Luigi	1495-1556.	
.37	Guidiccioni, Giovanni	1500-1541.	
.38	Casa, Giovanni della	1503-1556.	
.39	Minor Poets.		

4. Later 16th Century, 1542-1585.

From Convocation of Council of Trent, 1542, to Pontificate of Sixtus V., 1585.

.41	Costanzo, Angelo di	1507-1591.
.42	Rota, Bernardino	1509-1575.
.43	Tansillo, Luigi	1510-1568.
.44	Magno, Celio	1536-1602.
.45	Guarini, Giovambattista	1537-1612.
.46	**Tasso, Torquato**	1544-1595.
.47	Baldi, Bernardino	1553-1617.
.49	Minor Poets.	

851.5 Period of Decline, 1585–1748.

From Pontificate of Sixtus V., 1585–90, to Peace of Aix-la-Chapelle, 1748

.51	Chiabrera, Gabriello	1552–1637.
.52	Marini, Giovambattista	1569–1625.
.53	Testi, Fulvio	1593–1646.
.54	Filicaja, Vincenzo	1642–1707.
.55	Guidi, Alessandro	1650–1712.
.56	Manfredi, Eustachio	1674–1738.
.57	Frugoni, Carlo Innocenzo	1692–1768.
.58	Algarotti, Francesco	1712–1764.
.59	Minor Poets.	

.6 Period of Renovation, 1748–1814.

From Peace of Aix-la-Chapelle, 1748, to Congress of Vienna, 1814

.61	Paradisi, Agostino	1736–1783.
.62	Mascheroni, Lorenzo	1750–1800.
.63	Pindemonte, Ippolito	1753–1828.
.64	Monti, Vincenzo	1754–1828.
.65	Cassi, Francesco	1778–1846.
.66	Foscolo, Ugo	1779–1827.
.67	Arici, Cesare	1782–1836.
.68	Sestini, Bartolommeo	1792–1822.
.69	Minor Poets.	

.7 Early 19th Century, 1814–1859.

From Congress of Vienna, 1814, to War of Independence, 1859.

.71	Berchet, Giovanni	1783–1851.	
.72	Rossetti, Gabriello	1783–1854.	
.73	Manzoni, Alessandro	1785–1873.	See 853.72
.74	Marchetti, Giovanni	1790–1852.	
.75	Leopardi, Giacomo	1798–1837.	
.76	Carrer, Luigi	1801–1850.	
.77	Regaldi, Giuseppe	1809–1883.	
.78	Prati, Giovanni	1815–1884.	
.79	Minor Poets.		

.8 Later 19th Century, 1859–

From War of Independence, 1859, to

.81	Aleardi, Aleardo	1810–1878.
.82	Zanella, Giacomo	1820–1888.
.83	Gnoli, Domenico	1836–
.84	Carducci, Giosuè	1836–
.85	Fogazzaro, Antonio	1842–
.86	Rapisardi, Mario	1843–
.87	Guerrini, Olindo	1845–
.88		
.89	Minor Poets.	

852 Italian Drama.

.1	**Early Italian; Age of Dante,**	**–1375.**	
.2	**Period of Classical Learning, 1375–1492.**		
.21	Belcari, Feo	1410–1484.	
.22	Poliziano, Angelo	1454–1494.	See 851.24.
.29	Minor Dramatists.		
.3	**Age of Leo the Tenth, 1492–1542.**		
.31	Machiavelli, Niccolò	1469–1527.	See 854.31.
.32	Dovizi, Bernardo (Cardinal Bibbiena)	1470–1520.	
.33	Trissino, Gian Giorgio	1478–1550.	
.34	Aretino, Pietro	1492–1556.	
.35	Ambra, Francesco d'	–1558.	
.39	Minor Dramatists.		
.4	**Later 16th Century, 1542–1585.**		
.41	Speroni, Sperone	1500–1588.	
.42	Giraldi, G. B. Cinzio	1504–1573.	See 854.44.
.43	Cecchi, Giovanni Maria	1517–1587.	
.44	Asinari, Federigo	1527–1576.	
.45	Porta, Giovambattista della	1538–1615.	
.49	Minor Dramatists.		
.5	**Period of Decline, 1585–1748.**		
.51	Buonarroti, Michelangiolo, Jr.	1564–1646.	
.52	Rinuccini, Ottavio	1565–1622.	
.53	Andreini, Giovambattista	1578–1650.	
.54	Gigli, Girolamo	1660–1722.	
.55	Zeno, Apostolo	1669–1750.	
.56	Maffei, Scipione	1675–1755.	
.57	Trapassi, Pietro (Metastasio)	1698–1782.	
.59	Minor Dramatists.		
.6	**Period of Renovation, 1748–1814.**		
	For Manzoni, see 851.73 and 853.72.		
.61	**Goldoni, Carlo**	1707–1793.	
.62	Gozzi, Carlo	1722–1806.	
.63	Capacelli Albergati, Francesco	1728–1804.	
.64	**Alfieri, Vittorio**	1749–1803.	
.65	Nota, Alberto	1775–1847.	
.66	Biondi, Luigi	1776–1870.	
.67	Benedetti, Francesco	1785–1821.	
.69	Minor Dramatists.		
.7	**Early 19th Century, 1814–1859.**		
.71	Niccolini, Giovambattista	1782–1861	
.72	Pellico, Silvio	1788–1854	
.73	Giacometti, Paolo	1816–1881.	
.74	Gherardi del Testa, Tommaso	1818–1872.	
.75	Ferrari, Paolo	1822–89	
.79	Minor Dramatists.		

852.8	**Later 19th Century, 1859-**		
.81	Bersezio, Vittorio	1830-	
.82	Cossa, Pietro	1833-1882.	
.83	Carrera, Valentino	1834-	
.84	Marenco, Leopoldo	1836-	
.85	Cavallotti, Felice	1842-	
.86	Torelli, Achille	1844-	
.87			
.88			
.89	Minor Dramatists.		

853 Italian Fiction.

.1	**Early Italian; Age of Dante, -1375.**		
.11	"Cento Novelle Antiche" (Gualteruzzi's Collection).		
.12	Barberino, Francesco da	1264-1348.	
.13	Pisa, Guido da	-1350.	
.14	Gubbio, Bosone da		
.15	Boccaccio, Giovanni	1313-1375.	
.19	Minor Writers.		
.2	**Period of Classical Learning, 1375-1492.**		
.21	Sacchetti, Franco	-1400.	
.22	Fiorentino, Ser Giovanni		
.23	Manetti, Antonio	1423-1497.	
.24	Mangabotti, Andrea dei		
.25	Prato, Giovanni da		
.29	Minor Writers.		
.3	**Age of Leo the Tenth, 1492-1542.**		
.31	Salernitano, Masuccio		
.32	Bandello, Matteo	1480-1561.	
.33	Molza, Francesco	1483-1544.	See 851.34.
.34	Firenzuola, Agnolo	1493-1548.	
.39	Minor Writers.		
.4	**Later 16th Century, 1542-1585.**		
.41	Grazzini, Antonfrancesco (Lasca)	1503-1583.	
.42	Doni, Antonfrancesco	1513-1574.	
.43	Erizzo, Sebastiano	1525-1585.	
.44	Giraldi, G. B. Cinzio	1504-1573.	See 852.42.
.45	Parabosco, Girolamo	-1560.	
.49	Minor Writers.		
.5	**Period of Decline, 1585-1748.**		
.6	**Period of Renovation, 1748-1814.**		

853.7 **Early 19th Century, 1814–1859.**

.71	Rosini, Giovanni	1776–1855.	
.72	**Manzoni, Alessandro**	1785–1873.	See 851.73.
.73	Grossi, Tommaso	1791–1853.	
.74	Guerrazzi, Francesco Domenico	–1873.	
.75	Bresciani, Antonio	1798–1862.	
.76	Cantù, Cesare	1807–1895.	
.77	Carcano, Giulio	1812–1883.	
.78	Azeglio, Massimo d'	1800–1866.	
.79	Minor Writers.		

.8 **Later 19th Century, 1859–**

.81	Castellazzo, Luigi	1827–
.82	Barrili, Anton Giulio	1836–
.83	Capuana, Luigi	1839–
.84	Verga, Giovanni	1840–
.85	Faldella, Giovanni	1846–
.86	Farina, Salvatore	1846–
.87	Giovagnoli, Raffaello	
.88	Serao, Matilde	1856–
.89	Minor Writers.	

854 Italian Essays.

.1 **Early Italian; Age of Dante, –1375.**

.11	Cavalca, Fra Domenico	–1342.
.12	Passavanti, Fra Jacopo	–1357.

.2 **Period of Classical Learning, 1375–1492.**

.21	Alberti, Leone Battista	1404–1472.
.22	Palmieri, Matteo	1405–1475.
.23	Bisticci, Vespasiano da	1421–1498.
.24	Collenuccio, Pandolfo	–1504.
.25	Vinci, Leonardo da	1452–1519.
.29	Minor Essayists.	

.3 **Age of Leo the Tenth, 1492–1542.**

.31	Machiavelli, Niccolò	1469–1527.	See 852.31.
.32	Nardi, Jacopo	1476–1555.	
.33	Castiglione, Baldassare	1478–1529.	
.34	Guicciardini, Francesco	1482–1540.	
.35	Giannotti, Donato	1494–1573.	
.36	Giambullari, Pier Francesco	1495–1555.	
.37	Gelli, Giovambattista	1498–1563.	
.38	Varchi, Benedetto	1503–1566.	
.39	Minor Essayists.		

854.4 **Later 16th Century, 1542–1585.**

.41	Castelvetro, Ludovico	1505–1571.
.42	Piccolomini, Alessandro	1508–1578.
.43	Borghini, Vincenzo	1515–1580.
.44	Davanzati, Bernardo	1529–1606.
.45	Salviati, Leonardo	1540–1589.
.46	Ammirato, Scipione	1531–1601.
.47	Paruta, Paolo	1540–1598.
.48	Botero, Giovanni	1540–1617.
.49	Minor Essayists.	

.5 **Period of Decline, 1585–1748.**

.51	Sarpi, Paolo	1550–1623.
.52	Galilei, Galileo	1564–1642.
.53	Bartoli, Daniele	1608–1685.
.54	Dati, Carlo	1619–1675.
.55	Gravina, Giovanni Vincenzo	1664–1718.
.56	Muratori, Ludovico Antonio	1672–1750.
.57	Giannone, Pietro	1676–1748.
.58	Zanotti, Francesco Maria	1692–1777.
.59	Minor Essayists.	

.6 **Period of Renovation, 1748–1814.**

.61	Bettinelli, Saverio	1718–1808.
.62	Denina, Carlo	1730–1813.
.63	Tiraboschi, Girolamo	1731–1794.
.64	Lanzi, Luigi	1732–1810.
.65	Beccaria, Cesare	1735–1793.
.66	Filangeri, Gaetano	1752–1788.
.67	Cesari, Antonio	1760–1828.
.68	Perticari, Giulio	1779–1822.
.69	Minor Essayists.	

.7 **Early 19th Century, 1814–1859.**

.71	Costa, Paolo	1771–1836.
.72	Giordani, Pietro	1774–1848.
.73	Troya, Carlo	1785–1859.
.74	Balbo, Cesare	1789–1853.
.75	Capponi, Gino	1792–1878.
.76	Mamiani della Rovere, Terenzio	1800–1885.
.77	Gioberti, Vincenzo	1801–1853.
.78	Tommaséo, Niccolò	1802–1874.
.79	Minor Essayists.	

.8 **Later 19th Century, 1859–**

.81	Sanctis, Francesco de	1818–
.82	Bonghi, Ruggiero	1827–1895.
.83	Conti, Augusto	1827–
.84	Villari, Pasquale	1827–
.85	Ardigò, Roberto	1828–
.86	Comparetti, Domenico	1835–
.87	Zumbini, Bonaventura	1840–
.88	Panzacchi, Enrico	1841–
.89	Minor Essayists.	

855 Italian Oratory.

856 Italian Letters.

857 Italian Satire and Humor.

.1 Early Italian; Age of Dante, -1375.

.11	Gemignano, Folgore da San	
.12	Chitarra, Cene dalla	
.13	Angiulieri, Cecco	
.14	Pucci, Antonio	-1377.
.19	Minor Writers.	

.2 Period of Classical Learning, 1375-1492.

.21	Burchiello, Domenico	1395-1448
.22	Pulci, Luigi	1432-1484.
.23	Vinciguerra, Antonio	
.29	Minor Writers.	

.3 Age of Leo the Tenth, 1492-1542.

.31	Folengo, Teofilo (Merlin Cocai)	1491-1544.
.32	Berni, Francesco	1496-1535.
.39	Minor Writers.	

.4 Later 16th Century, 1542-1585.

.41	Nelli, Pietro	
.42	Beccuti, Francesco	1509-1553.
.43	Caporali, Cesare	1531-1601.
.49	Minor Writers.	

.5 Period of Decline, 1585-1748.

.51	Tassoni, Alessandro	1565-1635.
.52	Bracciolini, Francesco	1566-1645.
.53	Lalli, Giovambattista	1572-1637.
.54	Lippi, Lorenzo	1606-1664.
.55	Rosa, Salvatore	1615-1673.
.56	Menzini, Benedetto	1646-1704.
.57	Sergardi, Ludovico	1660-1726.
.58	Fortiguerri, Niccolò	1674-1735.
.59	Minor Writers.	

.6 Period of Renovation, 1748-1814.

.61	Gozzi, Gasparo	1713-1786.
.62	Passeroni, Gian Carlo	1713-1803.
.63	Casti, Giovambattista	1721-1803.
.64	Parini, Giuseppe	1739-1799.
.65	Baretti, Giuseppe	1716-1789.
.66	Elci, Angelo Maria d'	1754-1824.
.67	Pananti, Filippo	1766-1837.
.69	Minor Writers.	

.7 Early 19th Century, 1814-1859.

.71	Giusti, Giuseppe	1809-1850.

858 Italian Miscellany.

.8 Later 19th Century, 1859-

.81	Gubernatis, Angelo de	1840-
.82	Amicis, Edmondo de	1846-

859 Wallachian Literature.

.1, Poetry; .2, Drama; .3, Fiction; .4, Essays; .5, Oratory; .6, Letters; .7, Satire and Humor; .8, Miscellany.

.9 Rumansh Literature

Subdivided like 859.

860 Spanish Literature.

860.1, Philosophy; .2, Compends; .3, Dictionaries; .4, Essays; .5, Periodicals; .6, Societies; .7, Study and Teaching; .8, Collections; .9, History.

861 Spanish Poetry.

.02, Dramatic; .03, Romantic and Epic; .04, Lyric, Ballads; .05, Didactic; .06, Descriptive; .07, Satirical and Humorous; .09, History of Spanish Poetry.

.1 Early Spanish. -1369.

In 711 the Visigothic kingdom, founded in the 5th cent. was overthrown by Arabs; 711-1492 Arabic Period or Age of Reconquest.

Literature began in first half of 12th cent. Earliest poetry, epic; subjects national, themes war and religion (861.11-12). These were followed by an erudite tendency toward classic tradition neglecting national themes (861.13 and 14) which were however revived toward the close of the period (861.15) by continued victories over Moors under Alfonso 11th, 1312-50, thereafter reaction again toward didactic (861.16). Under Alfonso the wise, 1252-84, a general intellectual awakening, but leading to greater results in prose than in poetry. Through him (1) Provençal (and Galician) and (2) Oriental influences were introduced. In Provençal literature chief attention was given to perfection of poetic form. The Oriental was didactic in content, symbolic in form.

.11 "Primitive Monuments."

.12 "Poema de mio Cid."

.13 Berceo, Gonzalo de 1196-1266.

.14 Segura de Astorga, Juan Lorenzo 1250.

.15 Yañez Ruy (Cronica del Rey Alfonso Onceno).

.16 Sem Tob, Rabbí 1350.

.19 Minor Poets.

.2 Age of Imitation. 1369-1516.

Henry 2d to Carlos 1st, Charles 5th of Germany. 1479, Union of Castile and Arragon. Under Ferdinand and Isabella all Spain was brought under one scepter. Provençal and didactic tendencies continue; a third element was Italian influence. There were three distinct schools:

1. Provençal, specially influential at court.
2. Italian (Dante) or Allegorical, introduced by Francisco Imperial, a Genoese. (Mena, 861.22.)
3. Didactic. A protest against the Italian school in behalf of national literary traditions. (Ayala, 861.21).

.21 Lopez de Ayala, Pedro 1332-1407.

.22 Mena, Juan de 1411-1456.

.23 Mendoza, Iñigo Lopez de, Marqués de Santillana 1398-1458.

.24 Manrique, Jorge 1440-1479.

.25 Los "Cancioneros" } Collections of poetry.
.26 Los "Romances" }

.27 Romancero del Cid.

"Romances" popular poetry, peculiar to Spain, and generally anonymous; period of production, from earliest times to 18th cent. Golden Age during reign of Ferdinand and Isabella, a grand reawakening coming with the fall of Granada, 1492.

.29 Minor Poets.

861 .3 Golden Age. 1516–1700.

Rule of House of Austria. Painting culminates in this period: Morales 1509–86; Coello 1515–90; Joanes 1523–79; The Herrera—16th cent.; Ribera 1588–1656; Zurbaran 1598–1662; **Velazquez** 1599–1660; Cano 1601–1667; **Murillo** 1618–1682, etc.

Fierce opposition to the Reformation intensified religious sentiment and produced a school of mystics. The sentiment of nationality became a dream of universal monarchy. The chivalric cult of woman was replaced by an exaggerated conception of female honor, the least suspicion of frailty being visited with death.

Great number of poets. Nothing notable in Epic; Lyric very prominent; at first Italian influences more intensified, Petrarch the model. This movement, begun by Juan Boscan 1500(?)–1543, culminated in Garcilaso (861.31). The protest against this in favor of national traditions is best represented by Castillejo (861.32). Mendoza (861.36) represents a conciliation. A fusion of two schools follows in which the Italian wins the major influence. Thereafter appear two new schools:

1. Classic, opposed to the fusion and represented by Leon (861.33) and the Argensolas (861.34) and
2. Sicillian or Oriental (inspired specially by the Bible) of which Herrera (861.35) is standard bearer. First manifestations of "bad taste" appear; (founder of school, Alonso de Ledesma 1552–1623) represented by Gongora (861.37) which despite opposition (Rioja 861.38) produces rapid decadence. "Bad taste" consisted in artificialities, exaggerations, obscurities, etc.

.31	Vega, Garcilaso de la	1503–1536.
.32	Castillejo, Cristóbal de	1494–1596.
.33	Leon, Luis Ponce de	1528–1591.

Leon is equally important in prose.

.34	Los Argensolas: Lupercio, 1563–1613; Bartolomé Leonardo	1564–1631.
.35	Herrera, Fernando de	1534–1597.
.36	Mendoza, Diego Hurtado de	1503–1575.
.37	Góngora y Argote, Luis de	1561–1627.
.38	Rioja, Francisco de	1600–1659.
.39	Minor Poets.	

.4 18th century. 1700–1800.

At death of Carlos 2nd (1700) war of succession resulted in firm establishment of House of Bourbon, which, with brief interruptions, has continued to rule. Spanish political importance lost. At opening of century complete decadence, "bad taste" every where dominant. Attempts made to regenerate Spanish letters according to principles of French classicism. Little advance, however, till close of century, despite foundation of academies (Spanish Academy, 1714), and doctrinal reform in French sense, proclaimed by Luzan (1702–54) in "La Poetica," etc. Thereafter a kind of revival. Three schools formed:

1. Classic French. Moratin the elder (861.41); Cadalso (861.42); Yriarte (861.45) and Samaniego (861.44).
2. Antique National, protesting against introduction of French taste. Huerta (861.43).
3. Salamanca School, an attempt to reconcile the first two, avoiding their extravagances and conserving what was good in each. Valdés (861.46); Iglesias (861.47); Cienfuegos (861.48); Moratin the younger (862.42) and Jovellanos (868.42). "Prosaism" production of exaggerated opposition to Gongorism or "bad taste" also characterizes period. Influence of French Encyclopedism also manifest. Development of science checked by religious (Inquisition) and political despotism.

Rich development of fables and apologues in verse. Samaniego (861.44) and Yriarte (861.45). In epic, complete poverty.

.41	Moratin (The elder), Nicolás Fernandez de	1737–1780.
.42	Cadalso, José de	1741–1782.
.43	Huerta, Vicente Antonio García de la	1734–1787.
.44	Samaniego, Félix María de	1745–1801.
.45	Yriarte, Tomás de	1750–1791.
.46	Valdés, Juan Melendez	1754–1817.
.47	Iglesias de la Casa, José	1748–1791.
.48	Cienfuegos, Nicasio Álvarez de	1764–1809.
.49	Minor Poets.	

861.5 **19th century.** **1800–**

Abdication of Carlos 4th, 1808; Joseph 1st (Bonaparte) 1808–13. Ferdinand 7th restored. Salic law abrogated, opening succession to daughter Isabella. Carlist insurrections (upholding Salic law) quelled. Isabella driven from throne by revolution 1868; 1871–Amadeo (Savoy house), 1873, abdicates and republic is proclaimed; Restoration of monarchy in person of Alfonso 12th in 1875.

Age, till close of Ferdinand's reign, very unfavorable to letters. Under Carlos 4th (1788–1808) despotism re-introduced and revolution followed. Policy of Ferdinand 7th, after restoration (1813–33), retrograde. An interregnum in letters. First real awaking with Espronceda (861.52). Same fluctuations as in previous period. Romantic school introduced by Zorrilla (861.53).

.51 Quintana, Manuel José 1772–1857.
.52 Espronceda, José de 1810–1842.
.53 Zorrilla y Moral, José 1817–90
.54 Gutierrez, Antonio García 1812–
.55 Gil y Zárate, Antonio 1792–1861.
.56 Hartzembusch, Juan Eugenio 1806–1880.
.59 Minor Poets.

862 Spanish Drama.

.2 Age of Imitation. 1369–1516.

Evidences of existence of "mysteries" but no remains.

.21 Enzina, Juan del (?)1468–1534.
.22 Vicente, Gil (?)1450–1536.

.3 Golden Age. 1516–1700.

Drama of this period is chief glory of Spanish letters; writers show a phenomenal fecundity (at 70 "Lope" had written 1500 dramas), 30,000 dramas composed by beginning of 18th cent. At opening of period Church tried to check development of profane drama placing nearly all in the "Index." Torres Naharro (works pub. 1517) and Lope de Rueda (d. 1567) form transition from preceding period. Latter, reputed father of national theater. Lope de Vega (862.31) real founder. Drama culminates in Calderon (862.35); thereafter decadence.

.31 **Vega Carpio, Lope Felix de** 1562–1635.
.32 Cāstro y Bēlvis Guillen de 1567–1621.
.33 Tellez, Gabriel (Tirso de Molina, pseud. (?)1570–1648.
.34 Alarcon y Mendoza, Juan Ruiz de (?)1580–1639.
.35 **Calderon de la Barca, Pedro** 1600–1681.
.36 Rojas y Zorrilla, Francisco de 1607–
.37 Moreto y Cabaña, Agustin 1618–1669.
.39 Minor Dramatists.

.4 18th Century. 1700–1800.

Complete decadence of drama in last years of old monarchy. Revival in 18th cent., following French classic drama. Culminates in Moratin the younger (862.42). Opposition of National School voiced in Huerta (861.43). Discussions provoke abundant productions, fecundity rather than merit characterizing mass of writers, Comella (862.41). Period of unrest; old ideas cannot be reëstablished, new cannot be naturalized.

For Moratin the elder, see 861.41 and Huerta, 861.43.

.41 Comella, Luciano Francisco 1716–1779.
.42 Moratin, Leandro Fernandez de 1760–1828.
.43 Cruz, Ramon de la (Light comedies) 1731–1795.
.49 Minor dramatists.

.5 19th Century. 1800–

Zorrilla (861.53), Gutierrez (861.54), and Rubí (862.52) represent "romantic" movement in Spanish drama. For Gil y Zárate, see 861.55; Hartzembusch, 861.56.

.51 Martinez de la Rosa, Francisco 1789–1862.
.52 Rodriguez Rubí, Tomas 1817–
.53 Breton de los Herreros, Manuel 1796–
.59 Minor dramatists

863 Spanish Fiction.

.2 Age of Imitation. 1369–1516.

Immense vogue of books of chivalry despite legislation till publication of Don Quijote; thereafter only one written. [First part of Quijote printed 1605.]

.21 "Books of Chivalry."
.22 **"Amadis de Gaula."**
.23 "Celestina."

.3 Golden Age. 1516–1700.

Real novel replaces old books of chivalry about 1500. "Picaresca," or "rogue" novel characteristic of this period; a result of the state of society following wars of Charles 1st and Phillip 2d, e. g. Mendoza's "Lazarillo de Tormes." For Mendoza, see 861.36.

.31 Montemayor, Jorge de 1520–1561.
.32 **Cervantes Saavedra, Miguel de 1547–1616.**
.39 Minor novelists.

.4 18th Century. 1700–1800.

.5 19th Century. 1800–

For Breton de los Herreros, see 862.53; and Rodriguez Rubí, 862.52.

.51 Larra, Mariano José de [Figaro] 1809–1837.
.52 Romanos, Ramon Mesonero de 1803–
.53 Arrom, Cecilia Boehl de [Fernan Caballero] 1797–1877.
.59 Minor writers.

864 Spanish Essays.

865 Spanish Oratory.

Hardly any forensic and little sacred eloquence. When language and culture advanced, privileges of Cortes restrained. Sacred eloquence less employed by Spanish church than by French or English. Gongorism or "bad taste" conquers here as elsewhere.

.1 Early Spanish. –1369.

.2 Age of Imitation. 1369–1516.

.3 Golden Age. 1516–1700.

For Luis de Leon, see 861.33; and Luis de Granada, 868.32.

.4 18th Century. 1700–1800.

For Jovellanos, see 868.42; and Valdés, 861.46.

.5 19th Century. 1800–

.51 Olozaga, Salustiano de 1803–1873.
.52 Castelar, Emilio 1832–

866 Spanish Letters.

.3 Golden Age. 1516–1700.

Naturalness of old times changed with majestic court and rigid etiquette of Charles 5th. For Santa Teresa, see 868.33.

.31 Avila, Juan de 1502–1569.
.32 Perez, Antonio 1540–1611.
.39 Minor writers.

867 Spanish Satire.

.1 **Early Spanish.** **–1369.**

Ruiz, Juan (Arcipreste de Hita) 1350.

.2 **Age of Imitation.** **1369–1516.**

"Coplas de Mingo Revulgo."

.3 **Golden Age.** **1516–1700.**

Quevedo Villegas, Francisco Gomez de 1580–1645.

.4 **18th Century.** **1700–1800.**

For Cadalso, see 861.42; and Moratin the younger, 862.42.

.41 Jorge Pitillas (a pseudonym).

.42 Isla, José Francisco de (el Padre) 1703–1781.

868 Spanish miscellany.

.1 **Early Spanish.** **–1369.**

.11 Alfonso X., El Sábio 1221–1284.

.12 Sancho El Bravo (IV. of Castile) 1258–1295.

.13 Manuel, Juan 1282–1347.

.14 Alfonso XI. 1310–1350.

.19 Minor writers.

.2 **Age of Imitations.** **1369–1516.**

General and special histories, books of travel, works called forth by Boccacio's "Convaccio," etc.

.3 **Golden Age.** **1516–1700.**

Didactic prose. Considerable development, though less than poetry, owing in a great measure to restraints political and religious. "Bad Taste" manifests itself here as elsewhere. Luis de Granada, Santa Teresa, San Juan de la Cruz, Pedro de Rivadeneyra and Luis de Leon, representatives of Mystic School.

For Luis de Leon, see 861.33; and Quevedo y Villegas, 867.3.

.31 Mariana, Juan de, Founder of Spanish History 1536–1623.

.32 Granada, Luis de 1504–1588.

.33 Teresa de Jesús, Santa 1513–1582.

.34 Cruz, San Juan de la 1542–1591.

.35 Rivadeneyra, Pedro de 1527–1611.

.36 Saavedra Fajardo, Diego de 1584–1648.

.39 Minor Writers.

.4 **18th Century.** **1700–1800.**

Under Carlos 3d (1759–'88) scientific studies took a fresh start, due largely to Feijóo who attempted intellectual emancipation of Spain. Prose advances under French influence — Gallicisms introduced.

.41 Feijóo y Montenegro, Benito Jerónimo 1676–1764.

.42 Jovellanos, Gaspar Melchor de 1744–1811.

.49 Minor writers.

.5 **19th Century.** **1800–**

For Hartzembusch, J. E., see 861.56.

.51 Gayangos, Pascual de 1809–

.52 Rios, José Amador de los 1818–1878.

.53 Milá y Fontanals, Manuel 1818–1884.

.59 Minor writers.

869 Portuguese Literature.

.1, Poetry; .2, Drama; .3. Fiction; .4, Essays; .5, Oratory; .6, Letters; .7, Satire and Humor; .8, Miscellany.

870 Latin Literature.

.1, Philosophy; .2, Compends; .3, Dictionaries, Cyclopedias; .4, Essays; .5, Periodicals; .6, Societies; .7, Study and Teaching; .8, Collections; .9, History of Latin Literature.

871 Latin Poetry in General.

See Dramatic, Epic and Lyric below.

.1 **Lucretius Carus, Titus.** See also 187.
.2 **Ovid. (Publius Ovidius Naso.)**
.3 **Hyginus, Caius Julius.**
.4 **Faliscus, Gratius.**
.5 **Manilius, Marcus.**
.6 **Phædrus.**
.7 **Lucilius Junior. "Ætna."**
.8

872 Latin Drama.

.1 **Andronicus, Livius.**
.2 **Nævius, Cnæus.**
.3 **Plautus, Titus Maccius.**
.4 **Ennius.**
.5 **Terence. (Publius Terentius Afer.)**
.6 **Seneca, Lucius Annæus.** See also 878.5.
.7

873 Latin Epic Poetry.

.1 **Virgil. (Publius Virgilius Maro.)**
.2 **Lucanus, Marcus Annæus.**
.3 **Flaccus, Caius Valerius.**
.4 **Silius Italicus, Caius.**
.5 **Statius, Publius Papinius.**
.6

874 Latin Lyric Poetry.

.1 **Catullus, Tibullus and Propertius.**
.2 **Catullus, Valerius.**
.3 **Tibullus, Albius.**
.4 **Propertius, Sextus Aurelius.**
.5 **Horace. (Quintus Horatius Flaccus.)** See also 877.3.
.6 **Calpurnius Siculus.**
.7

875 Latin Oratory.

.1 **Cicero, Marcus Tullius. Complete Works.**
For Cicero's Letters see 876.1.

.2 **Orations.**

.3 **Rhetorical Works.**

.4 **Philosophical Works.** See also 186.3.

.5 **Messala Corvinus, Marcus Valerius.**

.6 **Quintilian. (Marcus Fabius Quintilianus.)**

.7

876 Latin Letters.

.1 **Cicero, Marcus Tullius.** For his other works see 875.1–875.4.

.2 **Pliny. (Caius Plinius Cæcilius Secundus.)**

.3 **Fronto, Marcus Cornelius.**

.4

877 Latin Satire and Humor.

.1 **Lucilius, Caius.**

.2 **Cato, Valerius.**

.3 **Horace.** See 874.5.

.4 **Persius Flaccus, Aulus.**

.5 **Petronius Arbiter, Caius.**

.6 **Martial. (Marcus Valerius Martialis.)**

.7 **Juvenal. (Decimus Junius Juvenalis.)**

878 Latin Miscellany.

.1 **Cæsar, Caius Julius.**

.2 **Sallust. (Caius Sallustius Crispus.)**

.3 **Nepos, Cornelius.**

.4 **Livy. (Titus Livius Patavinus.)**

.5 **Seneca, Lucius Annæus.** See also 872.6 and 188.6.

.6 **Tacitus, Caius Cornelius.**

.7 **Suetonius Tranquillus, Caius.**

.8 **Curtius Rufus, Quintus.**

.9 **Minor Writers.**

879 Mediæval and Modern Latin.

Subdivided like 820. .1, Poetry; .2, Drama; .3, Fiction; .4, Essays; .5, Oratory; .6, Letters; .7, Satire and Humor; .8, Miscellany.

880 Greek Literature.

.1, Philosophy; .2, Compends; .3, Dictionaries; .4, Essays on Greek Literature; .5, Periodicals; .6, Societies; .7, Study and Teaching; .8, Collections; .9, History of Greek Literature.

881 Greek Poetry in General.

See Dramatic, Epic, and Lyric, below.

.1 Theognis.
.2 Aratus.
.3 Lycophron.
.4 Babrius.

882 Greek Dramatic Poetry.

.1 Æschylus.
.2 Sophocles.
.3 Euripides.
.4 Aristophanes.
.5 Epicharmus.
.6 Menander.

883 Greek Epic Poetry.

.1 Homer.
.2 Hesiod.
.3 Apollonius Rhodius.
.4 Oppian.
.5 "Orphic Poems."

884 Greek Lyric Poetry.

.1 Tyrtæus.
.2 Sappho.
.3 Anacreon.
.4 Simonides of Ceos.
.5 Pindar.
.6 Theocritus.
.7 Bion.
.8 Callimachus.
.9 Minor Greek Lyric Poets.

885 Greek Oratory.

.1 Andocides.

.2 Lysias.

.3 Isæus.

.4 Isocrates.

.5 Æschines.

.6 Demosthenes.

.7 Hyperides.

.8 Lycurgus.

.9 Minor Greek Orators.

886 Greek Letters.

.1 Themistocles.

.2 Alciphron.

.3 Phalaris.

887 Greek Satire and Humor.

For Comedies of Aristophanes see 882.4.

.1 Archilochus.

.2 Simonides of Samos.

.3 Hipponax.

888 Greek Miscellany.

.1 Herodotus.

.2 Thucydides.

.3 Xenophon.

.4 Plato. See 184.1, Platonic Philosophy.

.5 Aristotle. See 185.1, Aristotelian Philosophy.

Or if preferred the works of Plato and Aristotle may be put in 184.1, and 185.1

.6 Æsop.

.7 Lucian.

.8 Plutarch. See also 186.2.

.9 Minor Writers.

889 Medieval and Modern Greek.

.1, Poetry; .2, Drama; .3, Fiction; .4, Essays; .5, Oratory; .6, Letters; .7, Satire and Humor; .8, Miscellany.

890 Literature of Minor Languages.

Subdivided like 490, Philology of Minor Languages. If wished the .1, Poetry; .2, Drama, etc., numbers can be used after the language number. e. g., Russian Drama is 891.72; Hebrew Poetry 892.41; Bengali Poetry 891.441.

History.

900 History in General.

901–909 all have *History in General* as their subject, but it is treated in these various *forms*. A periodical on English History goes with 942, not 905, which is only for periodicals on History in General. A Zero in any class number in any part of the classification shows the subject to be general, not specific.

901 Philosophy, Theories, etc. History of Civilization.

902 Compends, Chronologies, Charts, Outlines.

For Chronology as a Science, see 529.

903 Dictionaries, Cyclopedias, etc.

904 Essays, Lectures, Addresses.

905 Periodicals, Historical Magazines.

906 Societies, Transactions, etc.

907 Education, Methods of Teaching, Writing, etc.

See also 371.3.

908 Polygraphy, Collected Works, Extracts, etc.

909 Universal and General Modern Histories.

For General Ancient Histories, see 930.

.1	A. D. 476—1199.	.5	1500—1599.
.2	1200—1299.	.6	1600—1699.
.3	1300—1399.	.7	1700—1799.
.4	1400—1499.	.8	1800—1899.

910 Geography and Travels.

Including Topography, Maps, Antiquities, Descriptions, etc.

For map projection, see 526.9. See also 310 Statistics, 390 Customs and Costumes.

For Directories, Guide Books, Gazetteers, etc., of special countries or geographical sections, see under those sections, 914–919.

.1

.2 Traveler's Manuals, Guidebooks.

.3 Dictionaries, Gazetteers.

.4 Circumnavigations, Ocean Travel, Ship Wrecks and Disasters, Pirates.

.5 Periodicals.

.6 Societies.

.7 Study and Teaching of Geography. School Map Drawing.

See 372.8, Primary Teaching of Geography.

.8 Collections of Travels, etc.

.9 History of Geography, Travels, Explorations, etc.

911 Historical. Growth and Changes in Political Divisions, etc. Subdivided like 930–999.

912 Maps, Atlases, Plans of Cities, etc. Subdivided like 930–999.

913 Antiquities, Archæology, of Special Countries.

See also 220.93, biblical antiquities; 340.3, legal antiquities; 571, prehistoric archæology; 930, ancient history; 390, special customs. 913 is divided like 930–999. Note that this 3 is not the ancient history 3. Keltic antiquities are 913.36, not 913.6, which is African.

914 Europe.

915 Asia.

916 Africa.

917 North America.

918 South America.

919 Oceanica and Polar Regions.

914–919 is subdivided like 940–999. Whenever these main geographical headings occur they may be subdivided exactly like History. The full list of sub-heads is printed only under 940–999. In assigning numbers to travels, use the history tables, and *insert 1 after the initial 9*, and move the decimal point; e. g. Guide to N. Y. City is 917.471, for N. Y. in history tables is 974.71.

920 Biography.

Including Autobiography, Diaries, Personal Narratives, Eulogies, Biographical Dictionaries, &c. All Biography is here grouped together under the main classes, and subdivided in the same way with the variations indicated below for Philosophy, Theology, and Sociology, i. e., the biography of science is divided like science itself, see 500–599. Lives of chemists are 925.4; of botanists, 925.8; of sailors, 926.56; of actors, 927.92; of the inventor of hard rubber, 926.78, &c. The rule is to give each life the number of the subject it illustrates most, or to the student of which it will be most useful.

Another plan is to scatter biography with the other books, leaving 920–928 blank, or using them only for general works, cross references, &c. This simply omits the first two figures 92, and the life of a botanist is 580 instead of 925.8, and goes with the botanical books.

Lives which will not go under any head without "forcing" are best put in a single alphabet under the three figures 920 for men and 920.7 for women.

General and Collective by Localities.

Including only collected lives too general to go under any subject heading.

.01 Universal.
.02 Partial Collections not limited to any special country or subject.
.03 Ancient.
.04 Of Europe.
.05 „ Asia.
.06 „ Africa.
.07 „ North America.
.08 „ South America.
.09 „ Oceanica.

Individual and Collective by Subjects.

920.1 **Bibliographers.**
.2 **Librarians.**
.3 **Encyclopædists.**
.4 **Publishers. Booksellers.**
.5 **Journalists.**
.6 **Academicians.**
.7 **Women.** Collected, and individual lives not clearly going with any subject.
.8 **Eccentrics, Cranks, Fools, Insane, &c.** See also 132.1, Insanity.
.9 **Other special classes not included in 921–928, e. g., Phrenologists, Somnambulists, Mind Readers, Magicians, &c.**

921 Of Philosophy.

.1 **American.**
.2 **English. Scotch.**
.3 **German.**
.4 **French.**
.5 **Italian.**
.6 **Spanish.**
.7 **Slavic.**
.8 **Scandinavian and Other Modern.**
.9 **Ancient. Oriental. Patristic. Scholastic.** See 180–189.

922 Of Religion. Clergy, Missionaries, Preachers.

922.1-922.88 may be subdivided for nationality like 930–999.

.1 **Primitive (Apostles, Fathers, &c.), Oriental, Greek, Russian.** See 225.92, New Testament biography.
.2 **Roman Catholic. Popes, Cardinals, &c.**
.21 Lives of popes.
.3 **Anglican and Protestant Episcopal.**
.4 **Continental Protestant. Lutheran, Huguenot.**
.5 **Presbyterian and Congregational.**
.6 **Baptist.**
.7 **Methodist.**
.8 **Unitarian, Universalist. and other.**
.81 Unitarian. Universalist.
.82 Campbellite.
.83 Adventist.
.84 New church or Swedenborgian.
.85 Catholic apostolic.
.86 Quaker.
.87 Mennonite.
.88 Shaker.
.89 Other minor Christian sects.

922.9 **Non-Christian. Atheists.**

.91 Atheists

.92

.93

.94 Brahman. Buddhist.

.95 Parsee.

.96 Jews.

.97 Mohammedan.

.98 Mormon.

.99 Minor non-Christian religions.

923 Of Sociology.

923.1–923.8 may be subdivided for nationality, as in 930–999; e. g., the life of an English king is 923.142; of a Russian czar, 923.147; of a Chinese general, 923.551.

.1 **Chief Rulers. Kings, Queens, Emperors, Presidents.**

.2 **Political Science. Legislative Dept., Governors, Politicians, Statesmen, Nobles, &c.** For slaves, see 326.92.

.3 **Political Economy. Bankers, Capitalists, Financiers.**

.4 **Law. Judiciary Dept., Lawyers, Judges.**

.41 Criminals.

.5 **Administration. Army and Navy, Civil Service.**

.6 **Associations and Institutions. Philanthropists, &c.**

.7 **Education. Teachers, School Officers, Educators.**

.8 **Commerce and Communication. R. R. Officials, Merchants, &c.**

.9 **Manners and Customs. Society, Travelers, Discovery.**

924 Of Philology.

925 „ Science.

926 „ Useful Arts.

927 „ Fine Arts.

928 „ Literature.

See note under 920 about subdividing. It is seldom wise to use more than 4 figures, unless in a large special collection; e. g., in a music library, lives of pianists may be separated as 927.86. Professors known as specialists go with the subject taught rather than with teachers: e. g., a professor of geology 925.5; but if more prominent as an educator than as a geologist he goes in 983.7.

In adding figures for the subdivisions of Literature (as in 810–899) Historians are put with miscellaneous authors as 8, i. e., Gibbon's life is 928.28; 928.31 is life of a German poet, and 928.691 is life of a Portuguese poet.

929 Genealogy and Heraldry.

.1 **Genealogies.**

.2 **Families.**

.3 **Registers of Births, Baptisms, Marriages, Deaths.**

.4 **Names of Persons and Places.**

.5 **Epitaphs.**

929.6 **Heraldry.**

.7 **Peerage, precedence, titles of honor.**

.71 **Orders of knighthood.**

.711 St. John of Jerusalem.

.712 Templars.

.713 Teutonic knights.

.714 Garter.

.715 Golden Fleece.

.716 Holy Ghost.

.717

.718

.719

.72 **Great Britain and Ireland.**

.721 Peerage.

.722 Baronetage.

.723 Knightage.

.724 Dignities, precedence.

.725 Landed gentry.

.726 Visitations. Alphabeted by counties.

.73 **Germany**

.74 **France**

.75 **Italy**

.76 **Spain**

.77 **Russia**

.78 **Scandinavia**

} Divided like 929.72.

.79 **Minor countries.**

Divided like 949; minor countries outside Europe are put together in 929.799.

.8 **Coats of Arms, Crests.**

9 **Flags.**

930 Ancient History. To A. D. 476

931 China.

932 Egypt.

933 Judea.

934 India.

935 Medo-Persia.

.1 **Chaldæa.**
.2 **Assyria. Nineven.**
.3 **Media.**
.4 **Babylonia.**
.5 **Persia.**
.6 **Parthia.**
.7 **New Persian or Sassanian.**
.8 **Mesopotamia.**
.9 **Susiana.**

936 Kelts.

937 Rome. Italy.

Period Divisions.

.01	Kings.	753-509	B. C.
.02	Republic.	509- 31	"
.03	Conquest of Italy.	509-264	"
.04	Punic Wars.	264-146	"
.05	Civil Strife.	146- 31	"
.06	Empire.	31 B. C.-476	A. D
.07	Constitutional.	31 " -284	"
	Augustus—Illyrian Emperors		
.08	Absolute.	284-476	"
.09	Division of Empire.	395-476	"
	Barbarian Conquests and Fall of Western Empire.		

Geographical Divisions.

.1 **Liguria.**
.2 **Gallia Cisalpina.**
.3 **Venetia. Istria.**
.4 **Umbria. Picenum. Sabini, etc.**
.5 **Etruria.**
.6 **Latium, Rome.**
.7 **Southern Italy: Campania, Samnium, Apulia, etc.**
.8 **Sicily, Syracuse.**
.9 **Sardinia. Corsica.**

938 Greece.

Period Divisions.

.01	Mythical Age.	To 776 B. C.
.02	Growth of States.	775–500 „
.03	Persian Wars. Union of Greece.	500–479 „
.04	Athenian Supremacy.	479–431 „
.05	Peloponnesian War.	431–404 „
.06	Spartan and Theban Supremacy.	404–362 „
.07	Macedonian Supremacy.	362–323 „
.08	Roman Conquest of Greece.	323–146 „
.09	Greek Subjection	146 B. C.–323 A. D.

Byzantine Empire is put 949.5.

Geographical Divisions.

.1 **Macedonia.**

.2 **Thessaly. Epirus.**

.3 **Acarnania. Ætolia. Locris. Doris. Phocis. Ithaca.**

.4 **Bœotia. Megaris. Eubœa.**

.5 **Attica.**

.6 **Peloponnesus.**

.7 **Corinthia. Achaia.**

.8 **Elis. Arcadia. Argolis.**

.9 **Messenia. Laconia. Sparta.**

939 Minor Countries.

.1 **Grecian Archipelago.**

.11, Northern Islands: Thasos, Lemnos, etc.; .12, Lesbos; .13, Chios, etc.; .14, Samos, etc.; .15, Cyclades; .16, Rhodes, etc.; .17, Carpathos; .18, Crete.

.2 **Western Asia Minor.**

.21, Mysia, Troas; .22, Lydia; .23, Ionia; .24, Caria; .25, Bithynia; .26, Phrygia; .27, Pisidia; .28, Lycia; .29, Pamphylia.

.3 **Eastern Asia Minor.**

.31, Paphlagonia; .32, Galatia; .33, Pontus; .34, Cappadocia; .35, Cilicia; .36, Commagene; .37, Cyprus.

.4 **Syria.**

.41, Upper Syria; .42, Cœle Syria; .43, Palmyra; .44, Phenicia, Tyre; .45, Palestine: Hittites, Philistines, etc.; .46 Edom, Moab, Bashan, etc.; .47, Arabia; .48, Arabia Petræa, Sinai.

.5 **North Western Asia.**

.51, Scythia; .52, Sarmatia Asiatica; .53, Colchis; .54, Iberia; .55, Armenia; .56, Albania.

.6 **South Central Asia.**

.61, Sogdiana; .62, Hyrcania; .63, Margiana; .64, Bactriana; .65, Ariana.

.7 **Minor African Countries.**

.71, Mauritania; .72, Numidia; .73, Africa Propria, Carthage; .74, Syrtica Regio; .75, Cyrenaica; .76, Marmarica; .77, Libya, Gætulia; .78, Æthiopia.

8 **South Eastern Europe.**

.81, Sarmatia Europa; .82, Dacia; .83, Vindelicia; .84, Rhætia; .85, Noricum; .86, Pannonia; .87, Illyria; .88, Mœsia; .89, Thracia.

Modern History.

940 Europe.

From the fall of Western Empire (Rome), A. D. 476.

.1 **Medieval Europe.** 476–1453.

For Byzantine Empire see 949.5.

.2 **Rise of New Nations.** 476–800.

.3 **Age of Feudalism.** 800–1100.

See 321.3.

Charlemagne. 768–814.

Norman Conquests.

.4 **Age of Chivalry.** 1100–1453.

The Crusades. To fall of Eastern Empire (Constantinople). 1453

For Church History see 270.4–270.5.

.5 **Modern Europe.** 1453——

.6 **The Renaissance Period.** 1453–1517.

Discoveries and Inventions.

.7 **Age of the Reformation.** 1517–1789.

The 30 Years' War. 1618–1648.

.8 **Napoleonic Period.** 1789–1815.

.9 **Current History.** 1815——

941 Scotland.

Period Divisions.

.01	Gaelic Period.	–1097.
.02	English Period.	1097–1314.
	Struggle for National Freedom.	
.03	Independent Kingdom.	1314–1424.
.04	The Jameses.	1424–1557.
.05	Reformation.	1557–1603.
.06	Union of Crowns and Parliaments.	1603–1707.
.07	Hanover.	1707–1837.
.08	Victoria.	1837–
.09		

Geographical Divisions.

.1 **Northern Scotland.**

.11, Shetland; .12, Orkney; .13, Caithness; .14, Sutherland; .15, Cromarty; .16, Ross; .17, Hebrides.

.2 **North Central Scotland.**

.21, Inverness; .22, Nairn; .23, Elgin; .24, Banff; .25, Aberdeen; .26, Kincardine.

.3 **South Central Scotland.**

.31, Forfar; .32, Perth; .33, Fife; .34, Kinross; .35, Clackmannan; .36, Sterling; .37, Dunbarton; .38, Argyll; .39, Bute.

.4 **Southern Scotland.**

.41, Renfrew; .42, Ayr; .43, Lanark; .44, Linlithgow, Edinburgh; .45, Haddington, Berwick; .46, Peebles, Selkirk; .47, Roxburgh; .48, Dumfries; .49, Kirkcudbright, Wigton.

941.5 Ireland.

Period Divisions.

.51	Early History.	–1086.
.52	Separate Kingdoms.	1086–1172.
	Conquest by Henry II.	
.53	Plantagenet.	1172–1399.
.54	Lancaster and York.	1399–1485.
.55	Tudors.	1485–1603.
.56	Stuarts.	1603–1691.
	Closing with Treaty of Limerick.	
.57	Hanover.	1691–1801.
	Closing with the Union.	
.58	19th Century.	1801–
.59		

Geographical Divisions.

.6 Ulster.

.61, Antrim; .62, Londonderry; .63, Donegal; .64, Tyrone; .65, Down; .66, Armagh; .67, Monaghan; .68, Fermanagh; .69, Cavan.

.7 Connaught.

.71, Leitrim; .72, Sligo; .73, Mayo; .74, Galway; .75, Roscommon.

.8 Leinster.

.81, Longford, West Meath; .82, Meath, Louth; .83, Dublin; .84, Wicklow; .85, Kildare; .86, King's Co.; .87, Queen's Co.; .88, Carlow, Wexford; .89, Kilkenny.

.9 Munster.

.91, Waterford; .92, Tipperary; .93, Clare; .94, Limerick; .95, Cork; .96, Kerry.

942 England.

Period Divisions.

For specially minute work the 6th figure printed for each sovereign may be used; e. g., Henry VII is 942.051.

.01	Anglo-Saxon.	B. C. 55–A. D. 1066.
	Prehistoric, Roman, British, Danish.	
.02	Norman.	1066–1154.
	1, William I. 1066–1087; 2, William II. 1087–1100; 3, Henry I. 1100–1135; 4, Stephen 1135–1154.	
.03	Plantagenet.	1154–1399.
	1, Henry II. 1154–1189; 2, Richard I. 1189–1199; 3, John 1199–1216; 4, Henry III. 1216–1272; 5, Edward I. 1272–1307; 6, Edward II. 1307–1327; 7, Edward III. 1327–1377; 8, Richard II. 1377–1399.	

942 .04 Lancaster and York. 1400–1485.

1, Henry IV. 1399–1413; 2, Henry V. 1413–1422; 3, Henry VI. 1422–1461; 4, Edward IV. 1461–1483; 5, Edward V. 1483; 6, Richard III. 1483–1485.

.05 Tudor. 1485–1603.

1, Henry VII. 1485–1509; 2, Henry VIII. 1509–1547; 3, Edward VI. 1547–1553; 4, Mary 1553–1558; 5, Elizabeth 1558–1603. See 272.7.

.06 Stuart. 1603–1714.

1, James I. 1603–1625; 2, Charles I. 1625–1649; 3, Commonwealth 1649–1653; 4, Oliver Cromwell 1653–1658; 5, Richard Cromwell 1658–1659; 6, Charles II. 1660–1685; 7, James II. 1685–1688: 8, William III. 1689–1702; 9, Anne 1702–1714.

.07 Hanover. 1714–1837.

1, George I. 1714–1727; 2, George II. 1727–1760; 3, George III. 1760–1820; 4, George IV. 1820–1830; 5, William IV. 1830–1837.

.08 Victoria. 1837–

Geographical Divisions.

.1 **Middlesex. London.**

.2 **Southeastern.**

.21, Surrey; .23, Kent; .25, Sussex; .27, Hants; .28, Isle of Wight; .29, Berks.

.3 **Southwestern.**

.31, Wilts; .33, Dorset; .34, Channel Islands; .35, Devon; .37, Cornwall; .38, Somerset.

.4 **West Midland.**

.41, Gloucester; .43, Monmouth; .44, Hereford; .45, Salop; .46, Stafford; .47, Worcester; .48, Warwick.

.5 **North and South Midland.**

.51, Derby; .52, Notts; .53, Lincoln; .54, Leicester, Rutland; .55, Northampton; .56, Huntington, Bedford; .57, Oxford, Buckingham; .58, Hertford; .59, Cambridge.

.6 **Eastern.**

.61, Norfolk; .64, Suffolk; .67, Essex.

.7 **Northwestern and Yorkshire.**

.71, Cheshire; .72, Lancashire; .74, Yorkshire.

.8 **Northern.**

.81, Durham; .82, Northumberland; .85, Cumberland; .88, Westmoreland; .89, Isle of Man.

.9 **Wales.**

.91, Anglesey; .92, Carnarvon, Merioneth; .93, Denbigh, Flint; .94, Montgomery; .95, Cardigan; .96, Radnor, Brecknock; .97, Glamorgan; .98, Carmarthen; .99, Pembroke.

943 Germany and Austria.

Period Divisions.

.01 Formative Period.

Wars with Rome. Charlemagne 800–814; Louis I 814–840; Lothaire I 840–843.

.02 Empire before the Reformation.

1, **Carolingian,** 843–911: Louis II 843–876; Charles II 876–877; Charles III 877–887; Arnulf 887–899; Louis III 900–911.

2, House of Franconia: Conrad I 911–913; House of **Saxony,** 919–1024: Henry I 919–936; Otto I 936–973; Otto II 973–983; Otto III 983–1002; Henry II 1002–1024.

3, House of **Franconia,** 1024–1125: Conrad II 1024–1039; Henry III 1039–1056; Henry IV 1056–1106; Henry V 1106–1125; House of Saxony: Lothaire II 1125–1137.

4, House of **Hohenstaufen,** 1137–1197: Conrad III 1138–1152; Frederick I 1152–1190; Henry VI 1190–1197.

5, House of **Hohenstaufen** and **Interregnum,** 1198–1272: Philip 1198–1208; Otto IV 1208–1212; Frederick II 1212–1250; Conrad IV 1250–1254; William of Holland 1254–1256; Richard of Cornwall 1256–1272.

6, Houses of **Hapsburg, Luxemburg,** etc., 1273–1378: Rodolph I 1273–1291; Adolphus 1291–1298; Albert I 1298–1308; Henry VII 1308–1313; Louis IV 1313–1347; Charles IV 1347–1378.

7, **Interregnum,** 1378–1437: Wenceslaus 1378–1400; Rupert 1400–1410; Sigismund 1410–1437.

8, Albert II 1438–1439; Frederick III 1440–1493.

9, Maximilian I 1493–1519.

.03 Reformation to 1618. 1517–1618.

1, Charles V 1519–1556; 2, Ferdinand I 1556–1564; 3, Maximilian II 1564–1576; 4, Rodolph II 1576–1612; 5, Matthias 1612–1619.

.04 Disintegration. 1618–1705.

1, Thirty Years' War 1618–1648; 2, Ferdinand II 1619–1637; 3, Ferdinand III 1637–1657; 4, Leopold I 1658–1705.

.05 Rise of Prussia. 1705–1789.

1, Joseph I 1705–1711; 2, Charles VI 1711–1740; 3, 1740–1742; 4, Charles VII 1742–1745; 5, Francis I 1745–1765; *6, Seven Years' War 1756–1763;* 7, Joseph II 1765–1790.

.06 Napoleonic Wars. 1789–1815.

Leopold II 1790–1792; Francis II 1792–1806; Confederation of the Rhine 1806–1815.

.07 Reorganization. 1815–1866.

.08 New German Empire. 1866–

1, North German Confederation 1866–1871; 2, Franco-German War 1870–1871; 3, William I 1871–88; 4, Frederick 1888; William II 1888–

Geographical Divisions of Germany and Austria.

943.1 Prussia and Northern Germany.

943 .11, East Prussia; .12, West Prussia; .13, Posen; .14, Silesia; .15, Brandenburg; .16, Pomerania; .17, Mecklenburg and Lubeck; .18, Prussian Saxony; .19, Anhalt.

.2 Central Germany.

.21, Saxony; .22, **Thuringia**; .23, Saxe-Weimar; .24, Saxe-Altenburg; .25, Saxe-Gotha-Coburg; .26, Saxe-Meiningen; .27, Schwartzburg; .28, Reuss.

943.3 **Bavaria.**

.31, Upper Franconia; .32, Middle Franconia; .33, Lower Franconia; .34, Upper Palatinate; .35, Lower Bavaria; .36, Upper Bavaria; .37, Suabia.

.4 **Southern Germany.**

.41, Hesse Darmstadt; .42, Rhenish Prussia; .43, Rhenish Bavaria; .44, Alsace; .45, Lorraine; .46, Baden; .47, Wurtemburg; .48, *Black Forest* and *Danube;* .49, Hohenzollern.

.5 **Northwest Germany.**

.51, Schleswig-Holstein and Hamburg; .52, Oldenburg and Bremen; .53, Hanover; .54, Brunswick; .55, Lippe; .56, Westphalia; 57, Waldeck; .58, Hesse-Nassau.

943.6 Austria.

.61, Lower Austria; .62, Upper Austria; .63, Salzburg; .64, Tyrol; 65, Styria; .66, Carinthia; 67, Carniola; .68, Istria; .69, Dalmatia.

.7 **Bohemia, etc.**

.71, Bohemia; .72, Moravia; 73, Silesia; .74, Galicia; .75, Bukowina.

.8 **Poland.** Including the history before the division.

.9 **Hungary, etc.**

.91, Hungary; .92, Transylvania; .93, Slavonia; .94, Croatia, Fiume; .95 Bosnia; .96, Herzegovina.

944 France.

Period Divisions.

.01 Early History. -987.

Ancient Celts -59 B. C.; Roman Dominion 59 B. C.-418 A. D.; Merovingian Dynasty 428-752; Carolingian 752-987.

.02 Capet and Valois. 987-1589.

House of **Capet.**

1, Hugh Capet 987-996; Robert II 996-1031; Henry I 1031-1060.

2, Philip I 1060-1108; Louis VI 1108-1137; Louis VII 1137-1180.

3, Philip II 1180-1223; Louis VIII 1223-1226; Louis IX 1226-1270.

4, Philip III 1270-1285; Philip IV 1285-1314; Louis X 1314-1316; John I 1316; Philip V 1316-1322; Charles IV 1322-1328.

House of **Valois.**

5, Philip VI 1328-1350; John II 1350-1364; Charles V 1364-1380.

6, Charles VI 1380-1422; Charles VII 1422-1461.

7, Louis XI, 1461-1483; Charles VIII 1483-1498; Louis XII 1498-1515.

House of **Angoulême.**

8, Francis I 1515-1547; Henry II 1547-1559.

9, Francis II 1559-1560; Charles IX 1560-1574; Henry III 1574-1589.

03 **Bourbon.** 1589-1789

1, Henry IV 1589-1610; 2, Louis XIII 1610-1643; 3, Louis XIV 1643-1715; 4, Louis XV 1715-1774; 5, Louis XVI 1774-1789.

.04 Revolution. 1789-1804.

1, National Assembly 1789-1792; 2, First Republic 1792-1799; 3, Convention, 1792-1795; 4, Reign of Terror; May 1793-July 1794; 5, Directory 1795-1799; 6, First Consulate, Napoleon, 1799-1804.

.05 First Empire. 1804-1815.

Napoleon I 1804-1814; Louis XVIII 1814-1815; The Hundred Days March 20-June 29, 1815.

944.06 Restoration. 1815–1848.

1, Louis XVIII 1815–1824; 2, Charles X 1824–1830; 3, Louis Philippe 1830–1848.

.07 Second Republic and Second Empire. 1848–1870.

Revolution of 1848; Second Republic, Louis Napoleon, Pres., 1848–1852. Napoleon III 1852–1870.

.08 Third Republic. 1870–

Franco-German War, Government of National Defence 1870–1871; National Assembly 1871; Presidency of Thiers 1871–1873; McMahon 1873-1879; Grévy 1879–87, Sadi-Carnot 18 7-94; Casimir Périer 1894–95; Faure 1895–99; Loubet 1899–

Geographical Divisions of France.

944.1 **Brittany. Maine. Anjou.**

.11, Finistère; .12, Côtes du Nord; .13, Morbihan; 14, Loire Inférieure; 15, Ille et Vilaine; 16, **Maine**: Mayenne; 17, Sarthe; 18, **Anjou**: Maine et Loire.

.2 **Normandy. Picardy.**

.21, Manche; .22, Calvados; .23, Orne; 24, Eure; 25, Seine Inférieure; 26, **Picardy**: Somme; 27, **Artois**: Pas de Calais; 28, Nord.

.3 **Champagne. Isle de France. Lorraine.**

.31, Ardennes; .32, Marne; .33, Aube, Haute Marne; .34, **Isle de France**: Aisne; .35, Oise; 36, Seine et Oise, Paris; .37, Seine et Marne; .38, **Lorraine**: Meuse, Moselle; 39, Meurthe, Vosges.

.4 **Burgundy. Franche Comte. Savoy.**

.41, Yonne; .42, Côte d'Or; .43, Saône et Loire; .44, Ain; .45, **Franche Comté**: Haute Saône, Belfort; .46, Doubs; .47, Jura; .48, **Savoy**: Savoie; .49, Haute Savoie.

.5 **Orleans, etc. Auvergne.**

.51, Eure et Loir; .52, Loirét; .53, Loir et Cher; 54, **Touraine**: Indre et Loir; .55, **Berry**: Indre, Cher; .56, **Nivernais**: Nièvre; .57, **Bourbonnais**: Allier; .58, **Lyonnais**: Loire, Rhône; .59, **Auvergne**: Puy de Dôme, Cantal.

.6 **Poitou. Limousin.**

.61, Vendée; .62, Deux Sèvres; .63, Vienne; .64, Charente Inférieure; .65, Charente; .66, **Limousin**: Haute Vienne; .67, Corrèze; .68, **Marche**: Creuse.

.7 **Guienne. Gascony.**

.71, Gironde; .72, Dordogne; .73, Lot; .74, Aveyron; .75, Tarn et Garonne; .76, Lot et Garonne; .77, **Gascony**: Landes, Gers; .78, Hautes Pyrénées; .79, **Bearn**: Basses Pyrénées.

.8 **Languedoc.**

.81, Haute Loire, Lozère; .82, Ardèche; .83, Gard; .84, Hérault; .85, Tarn; .86, Haute Garonne; .87, Aude; .88, **Foix**: Ariége; .89, Pyrénées Orientales.

.9 **Provence. Dauphiny.**

.91, Bouches du Rhône; .92, Vaucluse; .93, Var; .94, Alpes Maritimes; .95, Basses Alpes; 96, **Dauphiny**; 97, Hautes Alpes; 98, Drôme; 99, Isère.

945 Italy.

Period Divisions.

.01	Gothic and Lombard Kingdoms.	476–774.
.02	Frankish Emperors.	774–961.
.03	German Emperors.	962–1122.
	Hildebrand and Papal Supremacy.	
.04	Age of the Communes.	1100–1300.
	Free Cities. Strifes of Guelphs and Ghibelines.	
.05	Age of the Despots.	1300–1492.
.06	Age of Invasions.	1492–1527.
.07	Spanish-Austrian Ascendancy.	1527–1796.
.08	Struggle for Independence.	1796–1870.
.09	United Italy.	1870–
	Victor Emanuel, Cavour, Garibaldi.	

Geographical Divisions of Italy.

945.1 **Piedmont and Liguria.**

.2 **Lombardy.**

.3 **Venetia.**

.4 **Emilia.**

.5 **Tuscany.**

.6 **Marches, Umbria and Latium.**

.7 **Naples.**

.71, Abruzzo and Molise; .72, Campania; .73, Napoli; .74, Salerno; .75, Apulia; .76, Lecce, Terra di Otranto; .77, Basilicata, Potenza; .78, Calabria; 79, Reggio di Calabria.

.8 **Sicily. Malta.**

.9 **Sardinia and Corsica.**

946 Spain.

Period Divisions.

.01	Early History. Roman Dominion. Gothic Kingdom.	—— 711.
.02	Moorish Kingdom.	711–1479.
.03	Ferdinand V and Isabella.	1479–1516
	Discovery.	
	Expulsion of the Moors.	
.04	Charles I and Philip II.	1516–1598.
	Inquisition. War with the Netherlands. Armada. Charles I (V of Germany) 1516–1556; Philip II 1556–1598.	
.05	Philip III.—Charles IV.	1598–1808.
	Degeneration. 1, Philip III 1598–1621; 2, Philip IV 1621–1665; 3, Charles II 1665–1700; 4, House of Bourbon: 5, Philip V 1700–1746; 6, Ferdinand VI 1746–1759; 7, Charles III 1759–1788; 8, Charles IV 1788–1808.	
.06	Peninsular War.	1808–1814.
	Joseph Bonaparte.	
.07	Bourbon Restoration.	1814–1868.
	Attempts at Reform.	
	Ferdinand VII 1814–1833; Isabella II. 1833–1868.	
.08	Later 19th Century.	1868 ——
	Revolution of 1868–1870; Amadeus 1870–1873; Republic 1873–1875; Alfonso XII 1875–85; Alfonso XIII 1886–	

Geographical Divisions of Spain.

946.1 **Galicia. Asturias.**
.2 **Leon. Estramadura.**
.3 **Old Castile.**
.4 **New Castile.**
.5 **Aragon.**
.6 **Basque Provinces.**
.7 **Catalonia. Balearic Isles. Valencia. Murcia.**
.8 **Andalusia. Canary Isles.**
.9 **Portugal.**
.98, Madeira; .99, Azores.

947 Russia.

Period Divisions.

.01	Primitive Russia.	—— 862.
.02	Varangian Kingdom.	862–1237.
	Conversion to Christianity.	
.03	Mongolian Invasion.	1237–1462.
	Civil Wars.	
.04	Ivan III—Ivan V.	1462–1689.
	Origin of Serfdom.	
.05	Peter the Great.	1689–1725.
	Wars with Sweden and Turkey.	
.06	Catharine I—Catharine II.	1725–1796.
	Partition of Poland.	
.07	Paul I—Nicholas I.	1796–1855.
	War with Napoleon.	
	Insurrection of Poland.	
	Crimean War. See also 942.08; 944.07; 945.08; 949.6.	
.08	Alexander II—	1855–1881.
	Emancipation of the Serfs.	
	Turko-Russian War.	
	Alexander III—	1881–

Geographical Divisions of Russia.

947.1 **Finland. Lapland.**
.2 **Northern Great Russia.**
Archangel; Vologda; Olonetz; Novgorod.
.3 **Southern Great Russia.**
.4 **Baltic Provinces.**
Courland; Livonia; Esthonia; St. Petersburg.
.5 **Russian Poland.**
.6 **West Russia.**
.7 **Little Russia. South Russia.**
.8 **East Russia.**
.9 **Caucasia.**

948 Norway, Sweden, and Denmark.

Period Divisions.

.01	Legendary Period.	—— 800.
.02	Consolidation. Migration.	801–1397.
	Introduction of Christianity.	
	Discovery of Iceland, Greenland, and America.	
	Conquest of Britain and Normandy.	
.03	Union of the three kingdoms.	1397–1523.
	Civilization. Foreign relations.	
.04	The Reformation.	1523–1648.
	Edict of Toleration, 1527.	
	30 Years' War. Gustavus Adolphus.	
.05	Decline.	1648–1792.
	Wars, vs. Denmark, Poland, Russia.	
	Political changes.	
.06	Napoleonic Wars.	1792–1818.
	Union of Norway and Sweden, 1814.	
.07	Charles XIV. (Bernadotte).	1818 ——.
	Peace. Internal reform.	
.08		

Geographical Divisions.

.1 **Norway.**

.2 **Christiania.**

.3 **Christiansand. Bergen.**

.4 **Hamar. Throndhjem. Tromso.**

.5 **Sweden.**

.6 **Gothland.**

.7 **Svealand.**

.8 **Norrland.**

.9 **Denmark.**

949 Minor Countries of Europe.

.1 **Iceland. Faroe Islands.**

01, Commonwealth, –1264; 02, Mediævalism, 1264–1551; 03, Absolute Rule, Decay, 1551–1848; 04, Modern Iceland, 1848 ——.

.2 **Netherlands.**

01, Early History, –1477; 02, Austrian Dominion, 1477–1566; 03, Wars for Independence, 1566–1648; 04, Age of Prosperity, 1648–1795; 05, Revolutionary, 1795–1830; 06, 19th Century, 1830 ——.

.3 **Belgium.**

.4 **Switzerland.**

01, Early History, –1300; 02, Struggle for Independence, 1300–1499; 03, Reformation, 1499–1648; 04, Period of Tranquillity, 1648–1789; 05, Period of Revolution, 1789–1815; 06, 19th Century, 1815 ——.

949.5 **Byzantine Empire and Modern Greece.**

01, Greek Revival. 323–716.
Constantine the Great — Theodosius III.
02, Byzantine Prosperity. 716–1057.
Leo III — Michael VI.
03, Byzantine Decline. 1057–1204.
Isaac I — Latin conquest of Constantinople.
04, Greek Survival. 1204–1453.
Constantinople taken by the Turks, 1453.
05, Turkish Power. 1453–1821.
06, Greek Independence. 1821 ——.

.6 **Turkey in Europe.** .61, Constantinople.

.7 **Servia. Bulgaria. Montenegro.**

.8 **Roumania: Wallachia, Moldavia.**

.9 **Islands of Grecian Archipelago.**
Divided like 939.1.

950 Asia.

951 China.

.1, N. E. China, Peking; .2, S. E. China, Canton, Hong Kong, Formosa; .3, S. W. China; .4, N. W. China; .5, Thibet; .6, East Turkestan; .7, Mongolia; .8, Manchuria; .9, Corea.

952 Japan.

953 Arabia.

.1, Sinai; .2, Hejaz, Mecca; .3, Yemen; .4, Hadramaut, Mahrah; .5, Oman; .6, Hasa; .7, Dahna; .8, Nejd; .9, Syrian Desert.

954 India.

.1, Bengal, Orissa, Assam, Bhotan; .2, Northwest Provinces, Oudh, Nepal; .3, Central Provinces; .4, Rajputana; .5, Punjab, Delhi, Lahore; .6, Cashmere; .7, Bombay, Sind, Baroda; .8, Madras, Mysore, Travancore, Ceylon; .9, Hyderabad.

955 Persia.

956 Turkey in Asia. See also 949.6.

.1, Khodavendikyar; .2, Aidin, Smyrna; .3, Kastamuni, Angora; .4, Konieh, Adana, Cyprus; .5, Trebizond, Sivas; .6, Erzerum, Diarbekr, Karpoot; .7, Bagdad, Kurdistan; .8, Aleppo; .9, Damascus, Phenicia, Palestine.

957 Siberia.

958 Afghanistan. Turkestan. Baluchistan.

.1, N. E. Afghanistan, Cabul; .2, South Afghanistan, Candahar; .3, N. W. Afghanistan, Herat; .4, Turkestan; .5, Kiva; .6, Bokhara; .7, Ferghana or Khokan; .8, Baluchistan.

959 Farther India.

.1, British Burmah; .2, Burmah; .3, Siam; .4, Laos; .5, Lower Siam, Malay Peninsula; .6, Cambodia; .7, French Cochin China; .8, Anam; .9, Tonkin.

960 Africa.

961 North Africa.

.1, Tunis; .2, Tripoli; .3, Fezzan.

962 Egypt.

.1, Lower Egypt, Alexandria, Cairo; .2, Middle Egypt; .3, Upper Egypt, Thebes; .4, Nubia; .5, Dongola; .6, Egyptian Soudan, Kartum; .7, Darfur; .8, Kordofan; .9, Sennaar.

963 Abyssinia.

964 Morocco.

965 Algeria.

966 North Central Africa.

.1, Sahara; .2, Soudan; .3, Senegambia; .4, Sierra Leone; .5, Upper Guinea; .6, Liberia; .7, Ashantee; .8, Dahomey; .9, Gold Coast.

967 South Central Africa.

.1, Lower Guinea; .2, Loango, Congo; .3, Angola, Benguela; .4, Interior; .5, Congo Basin; .6, Central Lake Region; .7, Somali; .8, Zanzibar; .9, Mozambique.

968 South Africa.

.1, Sofala; .2, Transvaal; .3, Zululand; .4, Natal; .5, Orange Free State; .6, Kaffraria; .7, Cape Colony; .8, West Coast; .9, Interior.

969 Madagascar. Mauritius.

970 North America.

.1, Indians, Aborigines; .2, Lives of Indians; .3, Special Tribes; .4, Special States; .5, Government Relation and Treatment; .6, Special Subjects, Character, Civilization, Agriculture, etc.

See 371.95, Education; 572.97, Ethnology; 497, Languages.

971 Canada. British America.

.1 British Columbia.

.2 North-West Territory.

.21, ; .22, Athabasca; .23, Alberta; .24, Saskatchewan; .25, Assiniboia; .26, Keewatin; .27, Manitoba; .28, N. E. Territory.

.3 Ontario.

.4 Quebec.

.5 New Brunswick.

.6 Nova Scotia.

.7 Prince Edward Island.

.8 Newfoundland.

.9 Labrador.

972 Mexico. Central America.

Period Divisions.

.01	Ancient Civilization.	—— 1516.
	1, Toltec; 2, Chichimec; 3, Tarascan; 4, Aztec; 5, Maya.	
.02	Discovery and Spanish Rule.	1516–1810.
.03	Independence.	1810–1822.
.04	First Empire. Iturbide I. Pronunciamientos.	1822–1845.
.05	War with U. S. See also 973.6.	1845–1848.
.06	Constitution of '57. Reform.	1848–1861.
.07	French Intervention.	1861–1867.
.08	Later History.	1867 ——

Geographical Divisions.

.1 **Free Zone and Northern States.**

Tamaulipas, Nuevo Leon, Cohahuila, Chihuahua, Sonora, Durango.

.2 **Lower California and Islands.**

.3 **Central Pacific States.**

Sinaloa, Jalisco, Colima, Michoacan.

.4 **Interior States.**

Zacatecas, San Luis Potosi, Aguascalientes, Guanajuato, Querétaro. Hidalgo, Puebla, Tlascala, Morelos.

.5 **Mexico. Federal District.**

.6 **Southern Gulf States.**

Veracruz, Tabasco, Campeche. Yucatan.

.7 **Southern Pacific States.**

Guerrero, Oaxaca, Isthmus of Tehuantepec, Chiapas.

.8 Central America.

.81 Guatemala.
.82 British Honduras. Belize
.83 Honduras.
.84 San Salvador.
.85 Nicaragua.
.86 Costa Rica.

.9 West Indies.

.91 Cuba.
.92 Jamaica.
.93 Santo Domingo.
.94 Hayti.
.95 Porto Rico.
.96 Bahamas.
.97 Leeward Islands.
.98 Windward Islands, Barbados
.99 Bermudas

973 United States

SUMMARY OF 973

.1	Discovery	—1607
.2	Colonial	1607—1775
.3	Revolution	1775—1789
.4	Constitutional	1789—1809
.5	War of 1812	1809—1845
.6	War with Mexico	1845—1861
.7	Civil war	1861—1865
.8	Later 19th century	1865—1901

See 342.73 U. S. constitutional law and history; 328.73 U. S. legislative bodies and annals; 329 Political parties

.1 Discovery —1607

From earliest times to settlement of Jamestown

See 970.1-6 American indians; 913.7 American antiquities; 571.91 Mounds and mound builders; 571.85 Pueblos

.11 Pre-Columbian

For pre-Columbian claims of Chinese, Norse, Welsh, etc., see .12 to .18 below

Arabs
Jews
Africans
Irish
Poles
Germans. Martin Behaim
Italians

.12 Chinese

.13 Norse
- Gunnbiorn
- Eric the Red
- Leif Ericson
- Bjarni Herjulfson
- Thorwald
- Thorfinn Karlsefne

.14 Welsh
- Prince Madoc

.15 Columbus

.16 Spanish and Portuguese

Dates of voyages are added to names

Amerigo Vespucci 1497–1504
Gaspar and Miguel Cortereal 1500–02. Labrador
Juan Ponce de Leon 1513–21. Florida
Vasco Nuñez de Balbóa 1513. Pacific ocean
Hernando Cortés 1518–40. See also 972.02 History of Mexico
Fernando da Magalhaens 1518–21. Magellan straits
Francisco Pizarro 1524–41. See also 985 History of Peru
Hernando de Soto 1539–42. Mississippi river
Francisco Vasquez de Coronado 1540–42. New Mexico, Arizona, Colorado

.17 English

John and Sebastian Cabot 1497–1530
Sir John Hawkins 1562–69
Sir Francis Drake 1570–80
Sir Martin Frobisher 1576–78
Sir Humphrey Gilbert 1578–83
Sir Walter Ralegh 1578–1602
John Davis 1585–87
Bartholomew Gosnold 1602–07

973.18 **French**

Giovanni da Verrazano 1524

Jacques Cartier 1534–44. Canada

Jean Ribault 1562–65. Florida

René de Laudonnière 1564–66. Florida

Samuel de Champlain 1603–35. See also 971 History of Canada

19 **Other nations**

.2 Colonial 1607–1775

See also histories of separate colonies

.21 **Virginia settlement 1607-20**

Settlement of Jamestown 13 May 1607. See 975.5 Virginia history

Hudson's voyage 1609. See also 974.7 N. Y. history

James 1 1603–25

.22 **New England settlement 1620-43**

Settlement of Plymouth 21 Dec. 1620. See 974.4 Mass. history

Pequot war 1636–37. Connecticut

Charles 1 1625–49

.23 **New England confederacy 1643-64**

'United colonies of New England' 19 May 1643

Commonwealth 1649–53
Oliver Cromwell 1653–58
Richard Cromwell 1658–59

.24 **Conquest of New Netherlands 1664-89**

King Philip's war 1675–76. Massachusetts

War with eastern indians 1675–78. Maine

Sir Edmund Andros, governor of New England 1686-89

Charles 2 1660–85
James 2 1685–88

.25 **Early French wars 1689-1732**

Witchcraft in New England. See 133.4

King William's war 1689–97

Sometimes called in Europe War of the Palatinate

Queen Anne's war 1702–13

Known in Europe as War of the Spanish succession

William 3 1689–1702
Anne 1702–14
George 1 1714–27

.26 **Extension of English rule 1732-63**

Settlement of Georgia 1732. See 975.8 Georgia history

King George's war 1744–48

Known in Europe as War of the Austrian succession

Albany convention assembled 19 June 1754

French and indian war 1755–63

Known in Europe as Seven years war

Braddock's defeat 9 July 1755

Crown Point and Ticonderoga 1758–59

Capture of Louisburg 27 July 1758

Capture of Quebec 18 Sep. 1759; Montcalm and Wolfe

Peace of Paris 10 Feb. 1763

George 2 1727–60

.27 **Last years of the colonies 1763-75**

See also specially 973.311 Causes of the revolution

Conspiracy of Pontiac 1763–64

Bouquet's expedition 1763–64

Lord Dunmore's war Ap.-Oct. 1774. Virginia

George 3 1760–1820

SUMMARY OF 973.3

.31	Political history
.32	Diplomatic history
33	Special campaigns and battles
.34	General military history
.35	Naval history
.36	Celebrations
.37	Prisons, hospitals
.38	Personal narratives
.39	Illustrative material

.31 Political history; causes, results

For financial history see 336.73

.311 Causes 1775

1 Stamp act 1765

2 Navigation acts; mercantile policy

Burning of the Gaspé 17 June 1772

3 Boston massacre 5 Mar. 1770

4 Taxation and representation

5 Tax on tea 1767. Boston tea party 16 Dec. 1773

6 Boston port bill 1774

.312 Political history 1775-83

Continental congress. See 328.73 U. S. legislative bodies

.313 Declaration of independence 4 July 1776. See also 973.361

Mecklenburg declaration 20 May 1775

.314 Loyalists, tories. See also 973.381 Treason and traitors

.315 Relations of special classes to the Revolution.

Clergy and churches

Lawyers

College graduates

.316

.317 Treaty of peace 1783

Concluded at Paris 3 Sep. 1783; ratified 14 Jan. 1784

.318 Confederation 1783-89

Shay's rebellion 1786-87. Massachusetts

Cession of western territory to United States

.319

.32 Diplomatic history; relations with other nations

Divided like 940; e. g. 973.324 Relations with France; 973.326 Relations with Spain

.33 Special campaigns and battles

.331 Campaigns of 1775

1 Lexington and Concord 19 Ap. See also 973.362

2 Bunker Hill 17 June. See also 973.366

3 Siege of Boston June 1775-Mar. 1776

4 Ticonderoga 10 May

Crown Point 12 May

5 Canadian expeditions

Montgomery

6 Arnold

7

8 Events in the south

973.332 Campaigns of 1776
1 Campaign for the Hudson
2 Battle of Long Island 27 Aug
3 British occupation of New York
4 American retreat Sep – Nov. 1776
Harlem Heights 16 Sep.
White Plains 28 Oct.
Fort Washington 16 Nov
5 Washington in the Jerseys Dec 1776 – Jan. 1777
6 Trenton 26 Dec.
Princeton 3 Jan. 1777
7
8 Events in the south
North Carolina
Fort Moultrie, Sullivan's island 28 June
.333 Campaigns of 1777
1 Events in Connecticut and Rhode Island
2 Burgoyne's campaign
Ticonderoga evacuated 6 July
Hubbardton, Vt. 7 July
Bennington, Vt. 16 Aug.
3 Freeman s farm or Bemis Heights or Stillwater 19 Sep.
Bemis Heights or Saratoga 7 Oct.
Burgoyne's surrender 17 Oct.
4 Fort Stanwix or Fort Schuyler or Oriskany 2–22 Aug
5 Clinton's advance up the Hudson
Forts Clinton and Montgomery 6 Oct.
6 Howe's campaign
Brandywine 11 Sep.
Paoli 20 Sep.
7 Philadelphia taken by British 27 Sep.
Germantown 4 Oct.
Forts on the Delaware
Red Bank, or Fort Mercer 22 Oct.
Mud Island, or Fort Mifflin 10–16 Nov.
8 Events in south. Including Kentucky
.334 Campaigns of 1778
1 Washington at Valley Forge 1777–78
2 Events in middle states
Battle of Monmouth 28 June
3 Evacuation of Philadelphia June
4 Indian depredations. See also 973.843
Wyoming 1–4 July
5 Mohawk valley
Cherry valley 11 Nov.
Brant. See also 970.2 Indian biography
6 Rhode Island campaign, August. See also 973.354 Naval history
7 Events in the south
Capture of Savannah 29 Dec.
8 Events in northwest 1778–79
Clark's expedition
Vincennes, Ind. 2 Jan. and 20 Feb. 1779

973.335 Campaigns of 1779
1 Events in New England
Tryon in Connecticut July
2 Penobscot expedition Aug. and Sep.
3 Events in middle states
Minisink 19 July
4 Wayne at Stony Point 16 July
5 Paulus Hook 19 Aug.
6 Sullivan's expedition July–Sep.
7 Events in the south
Briar creek 3 Mar.
Siege of Savannah 23 Sep. and 18 Oct.
8 Events in northwest. See 973.3348
.336 Campaign of 1780
1 Southern campaigns
Waxhaws, N. C. 29 May
Ramsour Mills, N. C. 20 June
Leslie's expedition into Virginia Oct.
2 Siege of Charleston Mar.–May
3 Camden, S. C. 16 Aug.
4 Kings mountain, S. C. 7 Oct.
5 Events in middle states
Springfield, N. J. 23 June
Bull's Ferry, N. Y. 21 July
6 Northern invasion
.337 Campaigns of 1781
1 Southern campaigns
2 Events in Carolinas Jan.–Ap.
Cowpens, S. C. 17 Jan.
Guilford, N C. 15 Mar.
Hobkirks hill, S. C. 25 Ap.
3 Events in Carolinas May–Dec.
Fort Ninety-Six, S. C. May–June
Eutaw Springs, S. C. 8 Sep.
4 British in Virginia
5 Siege of Yorktown Sep.–Oct.
Surrender of Cornwallis 19 Oct.
6 Events in the north
7 Arnold in Connecticut Sep.
.338 Campaigns of 1782
.339 Events of 1783
British evacuation of New York 25 Nov. See also 973.363

973.34 **General military history**

341 English side

.342 Mercenaries; Hessians

.343 Indians

.344 American side

Part taken by special states, specially the northern states. Under the number for each state use the book numbers A1-A19 for official publications, A2 for lists of revolutionary soldiers.

1

2 New Hampshire

3 Vermont. Not then a state, admitted 1791

4 Massachusetts

5 Rhode Island

6 Connecticut

7 New York

8 Pennsylvania

9 New Jersey

.345 Southern states

1 Delaware

2 Maryland

5 Virginia

6 North Carolina

7 South Carolina

8 Georgia

.346 American auxiliaries

.347 French

.348

.349 Special topics

Conway cabal 1777-78

Mutiny of Pennsylvania line Jan. 1781

Newburg addresses 1782-83

.35 **Naval history**

.351 Events of 1775

Capture of the Margaretta June 12

.352 Events of 1776

Escape of British sloop of war Glasgow 6 Ap.

Battle of Lake Champlain 11-13 Oct.

Gen. Benedict Arnold

.353 Events of 1777

Lexington and Alert 20 Sep.

.354 Events of 1778

French fleet at Newport

.355 Events of 1779

Bon Homme Richard and the Serapis 23 Sep.

.356 Events of 1780

Trumbull and Watt 2 June

.357 Events of 1781

Alliance and British brigs Atalanta and Trepassey 28 May

.358 Privateers

973 36 **Celebrations, anniversaries, commemorations**

These should usually be clast with the special event commemorated, but some anniversaries are of such general character as to be better clast here. For Patriotic societies of the revolution see 369.13

.361 Fourth of July. See also 973.313

.362 19th of April. See also 973.3311

.363 Evacuation day, New York. See also 973.339

.364

.365 Monuments, memorials. See also 718

.366 Bunker Hill monument. See also 973.3312

.367 Washington's various headquarters

Newburg, N. Y.

Morristown, N. J.

.37 **Prisons, hospitals, etc.**

371 English prisons

1 Jersey prison ship

2 Sugar house prison

.372 American prisons

.373 Exchange of prisoners

.374

.375 Medical dep't; surgeons, nurses, etc.

.376 Hospitals

377

.378

379

.38 **Personal narratives, vindications, secret-service**

.381 Treason and traitors. See also 973.314 Loyalists, tories

.382 Benedict Arnold

.383 Charles Lee

.384

.385 Secret-service, spies

American side. Nathan Hale

.386 British side. Major John André

.39 **Illustrative material**

These numbers should be used mainly for references. Poems, dramas etc. should usually be clast under their own numbers, 811, 812, etc. but special collections should be clast here.

.391 Poetry

.392 Drama

.393 Fiction

.394 Addresses

.395 Sermons

.396 Humor

.397 Pictures

Paintings, drawings, caricatures, engravings, photographs, sculpture

.398 Music

.399 Maps

973.4 Constitutional period 1789–1809

See 342.73 U. S. constitution; 329.1 Federal party 1789–18; 329.2 Anti-federal party 1789–92

.41 **George Washington** 30 Ap. 1789—4 Mar. 1797

Born 22 Feb. 1732; died 14 Dec. 1799

Sworn into office 30 Ap. 1789

National bank established 25 Feb. 1791. See 332.11

Vermont admitted, 14th state, 4 Mar. 1791. See 974.3

Kentucky admitted, 15th state, 1 June 1792. See 976.9

.42 Indian wars

Harmar's expedition 1790

St Clair's expedition 1791

.43 Washington's second term 4 Mar. 1793–4 Mar. 1797

Neutrality proclamation 22 Ap. 1793 See also 341.3

Whisky insurrection July–Nov. 1794

Wayne's expedition Oct. Nov. 1794, and treaty 3 Aug. 1795

Jay's treaty 28 Oct. 1795. See also 341.2

Treaty with Spain 27 Oct. 1795. See also 341.2

Tennessee admitted, 16th state, 1 June 1796. See 976.8

.44 **John Adams** 4 Mar. 1797—4 Mar. 1801

Born 31 Oct. 1735; died 4 July 1826

Alien act 25 June 1798. See 341.5

Sedition act 14 July 1798. See 323

Removal of capitol to Washington

.45 Troubles with France

Naval battles; Constellation and L'Insurgent 9 Feb. 1800

.46 **Thomas Jefferson** 4 Mar. 1801—4 Mar. 1809

Born 2 Ap. 1743; died 4 July 1826

Ohio admitted, 17th state, 19 Feb. 1803. See 977.1

Purchase of Louisiana 2 May 1803

.47 Wars with Barbary states

.48 Jefferson's second term 4 Mar. 1805–4 Mar. 1809

Aaron Burr's conspiracy 1806

See also 923.27 lives of Burr; and 343.1 Trials

Embargo act 22 Dec. 1807

.5 War of 1812 1809–45

.51 **James Madison** 4 Mar. 1809—4 Mar. 1817

Born 16 Mar. 1751; died 28 June 1836

Engagement between ships President and Little Belt 16 May 1811

Defeat of indians by Gen. Harrison at Tippecanoe 7 Nov. 1811

Louisiana admitted, 18th state, 30 Ap. 1812. See 976.3

Indiana admitted, 19th state, 11 Dec. 1816. See 977.2

973.52 War of 1812

War declared 18 June 1812. Treaty of peace 24 Dec. 1814

.521 Political history; causes, results

Hartford convention

.522 Diplomatic history

.523 Special campaigns and battles

1 Campaign in northwest

Includes all west of New York

Surrender of Detroit 16 Aug. 1812

2 Events in northwest 1813–14

3 Campaign in New York, New England and Canada

Battle of Queenstown 13 Oct. 1812

4 Events in New York and New England 1813

Capture of Fort Niagara 19 Dec.

5 Events in Canada 1813

Capture of Fort George 27 May

Battle of Thames 5 Oct.

6 Events in New York and New England 1814

Bombardment of Stonington, Conn. 9–12 Aug.

7 Events in Canada 1814

Capture of Fort Erie 3 July

Battle of Chippewa 5 July

Battle of Lundy's Lane 25 July

8 Campaign in the south

Battle of Bladensburg 24 Aug. 1814

Burning of Washington 24 Aug. 1814

Bombardment of Fort McHenry 13 Sep. 1814

9 Events in Louisiana

Battle of New Orleans 22 Dec. 1814–8 Jan. 1815

.524 General military history

1 English side

2 Indian allies

3

4 American side in general

Divided like 974. Under the number for each state use the book numbers A1–A10 for official publications, A2 for lists of soldiers.

5 South Atlantic states

Divided like 975

6 Gulf states

Divided like 976

7 Lake states

Divided like 977

973.525 Naval history
1 Events of 1812
Constitution and Guerrière 19 Aug.
Wasp and Frolic 18 Oct.
United States and Macedonia 25 Oct.
Constitution and Java 29 Dec.
2 Events on inland waters
3 Events of 1813
Hornet and Peacock 24 Feb.
Chesapeake and Shannon 1 June
Pelican and Argus 14 Aug.
Enterprise and Boxer 5 Sep.
4 Events on inland waters
Battle of Lake Erie 10 Sep.
5 Events of 1814
Essex against Phoebe and Cherub 28 Mar.
Peacock and Epervier 29 Ap.
Wasp and Reindeer 28 June
Wasp and Avon 1 Sep.
Wasp and Atlanta 21 Sep.
6 Events on inland waters
Battle on Lake Champlain 11 Sep.
7 Events of 1815
Capture of frigate President 15 Jan.
Capture of Cyane and Levant by the Constitution 20 Feb.
Hornet and Penguin 23 Mar.
8 Privateers
.526 War meetings, celebrations, anniversaries, etc.
See note under 973.30
See 369.14 societies of the war of 1812
.527 Prisons, hospitals, etc.
1 English prisons. Dartmoor
.528 Personal narratives, vindications, secret service
.529 Illustrative material. Divided like 973.39
.53 Algerine war

.54 **James Monroe** **4 Mar. 1817—4 Mar. 1825**
Born 28 Ap. 1758; died 4 July 1831
Mississippi admitted, 20th state, 10 Dec. 1817. See 976.2
Illinois admitted, 21st state, 3 Dec. 1818. See 977.3
Purchase of Florida 25 Feb. 1819
Alabama admitted, 22d state, 14 Dec. 1819. See 976.1
Maine admitted, 23d state, 15 Mar. 1820. See 974.1
Missouri compromise. See 326.973 and 973.7113
Missouri admitted, 24th state, 10 Aug. 1821. See 977.8
Monroe doctrine Dec. 1823. See 327.73
Tariff act 22 May 1824. See 337
.541 Seminole war 1818

.55 **John Quincy Adams** **4 Mar 1825—4 Mar. 1829**
Born 11 July 1767; died 23 Feb. 1848
Erie canal completed 1825. See 386
Panama congress 1826. See 341.1
Removal of Creek indians. 1825–29. See 970.3
Tariff act 19 May 1828. See 337

973.56 **Andrew Jackson** **4 Mar. 1829—4 Mar. 1837**

Born 15 Mar. 1767; died 8 June 1845

Rotation in office. See 351.6

United States bank. See 332.11

Whig party. See 329.4

Compromise tariff act 3 Mar. 1833. See 337

Independence of Texas 2 Mar. 1836. See 976.4

Arkansas admitted, 25th state, 15 June 1836. See 976.7

Specie circular 11 July 1836. See 336.73

Michigan admitted, 26th state, 26 Jan. 1837. See 977.4

.561 Nullification. See also 342.73

Webster and Hayne debate 25-27 Jan. 1830

Nullification ordinance, South Carolina 24 Nov. 1832

.562 Black Hawk war 1832

.57 **Martin Van Buren** **4 Mar. 1837—4 Mar. 1841**

Born 5 Dec. 1782; died 24 July 1862

Panic of 1837. See 332

Alton riot 7 Nov. 1837. See 326.973

Burning of Caroline 26 Dec. 1837

Northeast boundary, Aroostook war, Feb., Mar. 1839

Amistad case 1839

.571 Second Seminole war 1835-42

.58 **William Henry Harrison** **4 Mar. 1841—4 Ap. 1841**

Born 9 Feb. 1773; died 4 Ap. 1841

John Tyler **4 Ap. 1841—4 Mar. 1845**

Born 29 Mar. 1790; died 18 Jan. 1862

Dorr's rebellion May-June 1842. See 974.5

Ashburton treaty, northeast boundary

Texas annexation resolution 28 Feb. 1845

Florida admitted, 27th state, 3 Mar. 1845

.6 War with Mexico 1845-61

.61 **James Knox Polk** **4 Mar. 1845—4 Mar. 1849**

Born 2 Nov. 1795; died 15th June 1849

Texas annexed, 28th state, 29 Dec 1845. See 976.4

Wilmot proviso adopted by house 8 Aug. 1846 See also 973.7113

Iowa admitted, 29th state, 28 Dec. 1846. See 977.7

Wisconsin admitted, 30th state, 29 May 1848. See 977.5

Free soil party; Buffalo convention Aug. 1848. See 329.6

.611 Northwest boundary; Oregon; treaty with England 12 June 1846

.62 Mexican war. 1845-48.

War declared 13 May 1846; treaty of peace 30 May 1848

.621 Political history; causes, results

Annexation of Texas

Acquisition of California, Nevada, Utah, Arizona, etc.

.622 Diplomatic history

.623 Special campaigns and battles

1 Kearny in New Mexico

2 Fremont in California

3 Taylor's campaign

4 On the Rio Grande

Palo Alto 8 May 1846

Resaca de la Palma 9 May

" Matamoras 18 May

5 In Mexico

Monterey 20-25 Sep. 1846

Buena Vista 22-23 Feb. 1847

973.623 6 Scott's campaign
7 Vera Cruz 22-29 Mar. 1847
Cerro Gordo 17-18 Ap.
8 Battles near Mexico
Contreras 19-20 Aug.
San Antonio 20 Aug.
Churubusco 20 Aug.
9 Capture of Mexico
Molino del Rey 8 Sep.
Chapultepec 12-13 Sep.
Mexico 14 Sep.

.624 General military history

.625 Naval history

.626 War meetings, celebrations, anniversaries
See note under ,73.36; also 369.145 Aztec club of 1847

.627 Prisons, hospitals, etc.

.628 Personal narratives

.629 Illustrative material. See note under 973.39

.63 **Zachary Taylor** **5 Mar. 1849—9 July 1850**
Born 24 Sep. 1784; died 9 July 1850
Inaugural ceremony 5 March
Compromise of 1850, Omnibus bill, introduced by Henry Clay 29 Jan. 1850. See 326.973 and 973.7113

.64 **Millard Fillmore** **9 July 1850—4 Mar. 1853**
Born 7 Feb. 1800; died 7 Mar. 1874
Clayton-Bulwer treaty 4 July 1850. See 386
California admitted, 31st state, 9 Sep. 1850. See 979.4
Fugitive slave law 18 Sep. 1850 See 326.973
Popular sovereignty, or squatter sovereignty. See 342.73 and 326.97?
Filibustering expeditions to Cuba 1849–51. See 972.91

.65

.66 **Franklin Pierce** **4 Mar. 1853—4 Mar. 1857**
Born 23 Nov. 1804; died 8 Oct. 1869
Know-nothing party. See 329.5
Republican party. See 329.6
Com. Perry's expedition to Japan 1852–54. See 915.2 and 341.273
Gadsden treaty with Mexico for purchase of southern Arizona and New Mexico 30 June 1854
Kansas-Nebraska bill 30 May 1854. See 326.973, 978.1 and 978.2.
Ostend manifesto 18 Oct. 1854. See 972.91
Walker's filibuster expedition against Nicaragua 1855. See also 972.85

.67

.68 **James Buchanan** **4 Mar. 1857—4 Mar. 1861**
Born 23 Ap. 1791; died 1 June 1868
Dred Scott decision 6 Mar. 1857. See 326.973 and 973.7113
Lecompton constitution, Kansas; proslavery 7 Nov. 1857. See 978.1
Minnesota admitted, 32d state, 11 May 1858. See 977.6
Oregon admitted, 33d state, 14 Feb. 1859. See 979.5
John Brown's raid 16-17 Oct. 1859. See 973.7116 and 326.973
Kansas admitted, 34th state, 29 Jan. 1861. See 978.1

.69

SUMMARY of 973.7

.71 Political history
.72 Diplomatic history
.73 Special campaigns and battles
.74 General military history
.75 Naval history
.76 Celebrations
.77 Prisons, hospitals
.78 Personal narratives
.79 Illustrative material

Abraham Lincoln 1861–1865

Born 12 Feb. 1809; died 15 Ap. 1865
1st term 4 Mar. 1861—4 Mar. 1865; 2d term 4 Mar. 1865—15 Ap. 1865

.71 **Political history; causes, results**
West Virginia admitted, 35th state, 19 June 1863. See 975.4
Nevada admitted, 36th state, 31 Oct. 1864. See 979.3

.711 Causes
1 Slavery. See also 326
2 Extension of slavery
Annexation of territory
Slavery in the territories
3 Compromises
Missouri compromise 1820. See also 973.54
Wilmot proviso 1846. See also 973.61
Compromise of 1850. See also 973.63
4 Abolition movement
Murder of Elijah P. Lovejoy 7 Nov. 1837
Assault on Charles Sumner by Preston S. Brooks, 22 May 1856
5 Fugitive slaves
Underground railway
Dred Scott case. See also 973.68
6 John Brown's raid. See also 973.68
7 States' rights
8 Tariff See also 337

.712 Efforts to preserve peace
Crittenden compromise introduced 18 Dec. 1860
Peace conference 4–27 Feb. 1861

.713 Secession of southern states
South Carolina 20 Dec. 1860
Mississippi 9 Jan. 1861
Florida 10 Jan.
Alabama 11 Jan.
Georgia 19 Jan.
Louisiana 26 Jan.
Texas 1 Feb.
Confederate states of America formed 4 Feb.
Virginia 17 Ap.
Arkansas 6 May
North Carolina 20 May
Tennessee 8 June
For constitutional conventions see subdivisions of 342; proceedings and documents of Confederate Congress and of state legislatures see subdivisions of 328.

.714 Results of the civil war
Emancipation proclamation 1 Jan. 1863. See 326.8
Freedmen's bureau. See 361
For the present condition of negro, see 325.26
For negro colony in Africa, Liberia, see 325.6; history of Liberia 966.6

973.715 Relations of special classes to the civil war
Clergy and churches. Colleges, students and graduates
.716 Southern side
.717 Unionists in the south
.718 Secessionists in the north
.72 Diplomatic history; relations with other nations
Divided like 940; e. g. 973.722 Relations with England; 973.727 Russia
.721 Diplomatic history of confederate states
Divided like 940; e. g. 973.7214 Relations of confederate states with France
.73 Special campaigns and battles
General arrangement of topics is based on *Official records of the Union and confederate armies*, pub. by the U. S. The indexes of those volumes can be used as a minute subject index for subdivisions of 973.73
.731 Campaign of 1861
1 Operations in Charleston harbor, S. C. 20 Dec. 1860–14 Ap. 1861
Bombardment of Fort Sumter 12-14 Ap.
2 Operations in other southern states (see *Official records*, v. 1)
3 Maryland, Pennsylvania, Virginia, West Virginia, 16 Ap.-31 July
Riot at Baltimore, Md. 19 Ap.
Engagement at Big Bethel, or Bethel Church, Va. 10 June
4 Battle of Bull Run, or Manassas, Va. 21 July
5 Missouri, Arkansas, Kansas, Indian territory 10 May-19 Nov.
6 Texas, New Mexico, Arizona 11 June-1 Feb. 1862
Kentucky, Tennessee 1 July-19 Nov.
North Carolina, southeastern Virginia 1 Aug.-11 Jan. 1862
7 Maryland, northern Virginia, West Virginia 1 Aug.-17 Mar. 1862
8 Engagement at Ball's Bluff, Va. 21 Oct.
Action near Edwards Ferry, Va. 22 Oct.
9 S. Carolina, Georgia, middle and east Florida 21 Aug.-11 Ap. 1862
.732 Campaign of 1862
1 West Florida, southern Alabama, southern Mississippi, Louisiana
1 Sep. 1861–12 May 1862
Capture of New Orleans, La. 18 Ap.-1 May
2 Kentucky, Tennessee, north Alabama, southwest Virginia
19 Nov. 1861–4 Mar. 1862
Capture of Fort Henry, Tenn. 6 Feb.
Siege and capture of Fort Donelson, Tenn. 12-16 Feb.
3 Missouri, Arkansas, Kansas, Indian T. 19 Nov. 1861–10 Ap. 1862
Battle of Pea Ridge, or Elkhorn tavern, Ark. 6-8 Mar.
4 Southeastern Virginia 11 Jan.-17 Mar.
Battle of Merrimac and Monitor. See 973.752
North Carolina 11 Jan.-20 Aug.
Burnside expedition
Battle of Roanoke island, N. C. 8 Feb.
Texas, New Mexico, Arizona 1 Feb.-20 Sep.
5 Kentucky, Tennessee, north Mississippi, north Alabama, southwest Virginia 4 Mar.-10 June
Siege of Corinth, Miss. 29 Ap.-10 June
6 Battle of Pittsburg Landing, or Shiloh, Tenn. 6-7 Ap.
7 Peninsular campaign, Va. 17 Mar.-2 Sep.
Siege of Yorktown, Va. 5 Ap.-4 May
Battle of Fair Oaks, or Seven Pines, Va. 31 May-1 June
Seven-days battles 25 June-1 July
8 Northern Virginia, West Virginia, Maryland 17 Mar.-2 Sep.
Battle of Cedar Run, or Cedar (Slaughter) mountain, Va. 9 Aug.
Second battle of Bull Run, or Manassas, Va. 30 Aug.
9 Missouri, Arkansas, Kansas, Indian T. Dep't of N. W. 10 Ap.-20 Nov.

973.733 Campaign of 1862 *continued*

1 South Carolina, Georgia, middle and east Florida 12 Ap. 1862–11 June 1863

2 West Florida, southern Alabama, southern Mississippi, Louisiana 12 May 1862–14 May 1863

Texas, New Mexico, Arizona 20 Sep. 1862–14 May 1863

3 Kentucky, middle and east Tennessee, north Alabama, southwest Virginia 10 June-31 Oct.

4 West Tennessee, northern Mississippi 10 June-20 Jan 1863

Battle of Corinth, Miss. 3-4 Oct.

5 North Carolina, southeastern Virginia 20 Aug. 1862–3 June 1863

6 Northern Virginia, West Virginia, Maryland, Pennsylvania 3 Sep.-14 Nov.

Battle of South Mountain, Md. 14 Sep.

Battle of Antietam, or Sharpsburg, Md. 16-17 Sep.

7 Kentucky, middle and east Tennessee, north Alabama, southwest Virginia 1 Nov.-20 Jan. 1863

Battle of Stone river, or Murfreesboro, Tenn. 31 Dec. 1862–3 Jan. 1863

8 Northern Virginia, West Virginia, Maryland, Pennsylvania 15 Nov.-25 Jan. 1863

9 Battle of Fredericksburg, Va. 11-15 Dec.

.734 Campaign of 1863

1 Missouri, Arkansas, Kansas, Indian territory, Dep't of Northwest 20 Nov. 1862–31 Dec. 1863

2 Kentucky, middle and east Tennessee, north Alabama, southwest Virginia 21 Jan.-10 Aug.

Middle Tennessee, or Tullahoma campaign 23 June-7 July

Morgan's Ohio raid 2-26 July

3 Mississippi, west Tennessee 20 Jan.-10 Aug.

4 Siege of Vicksburg, Miss. 19 May-4 July

5 Northern Virginia, West Virginia, Maryland, Pennsylvania 26 Jan.-3 June

6 Chancellorsville, Va. campaign 27 Ap.-6 May

7 West Florida, southern Alabama, southern Mississippi, Louisiana, Texas, New Mexico 14 May-31 Dec.

Siege of Port Hudson, La. 21 May-8 July

8 North Carolina, Virginia, West Virginia, Maryland, Pennsylvania, Dep't of East 3 June-3 Aug.

9 Battle of Gettysburg, Pa. 1-3 July

973.735 Campaign of 1863, *continued*

1 South Carolina, Georgia, middle and east Florida 12 June-31 Dec.
Operations on Morris island, S. C. 10 July-7 Sep.
Occupation of Battery Wagner, S. C. 6-7 Sep.
Bombardment of Fort Sumter, S. C. 17 Aug.-31 Dec.
Bombardment of Charleston, S. C. 21 Aug.-31 Dec.

3 North Carolina, Virginia, West Virginia, Maryland, Pennsylvania 4 Aug.-31 Dec.
Bristoe, Va campaign 9-22 Oct.
Mine Run, Va campaign 26 Nov.-2 Dec.

4 Kentucky, southwest Virginia, Tennessee, Mississippi, north Alabama, north Georgia 11 Aug.-19 Oct.

5 Chickamauga, Ga. campaign 16 Aug -22 Sep.
Battle of Chickamauga, Ga. 19-20 Sep.

6 East Tennessee campaign 16 Aug.-19 Oct.

7 Kentucky, southwest Virginia, Tennessee, Mississippi, north Alabama, north Georgia 20 Oct.-31 Dec.

8 Knoxville, Tenn. campaign 4 Nov.-23 Dec.
Siege of Knoxville, Tenn. 17 Nov.-4 Dec.

9 Chattanooga-Ringgold campaign 23-27 Nov.
Battle of Lookout mountain, Tenn. 24 Nov.
Battle of Missionary ridge, Tenn. 25 Nov.

.736 Campaign of 1864

1 Kentucky, southwest Virginia, Tennessee, Mississippi, Alabama, north Georgia 1 Jan.-30 Ap.
Meridian, Miss. expedition 3 Feb.-6 Mar.
Forrest's expedition into west Tennessee and Kentucky 16 Mar.-14 Ap.
Capture of Fort Pillow, Tenn. 12 Ap.

2 N. Carolina, Virginia, W. Va. Maryland, Pennsylvania 1 Jan.-30 Ap.
Expedition against New Berne, N. C. 28 Jan.-10 Feb.
Engagement at Morton's Ford, Va. 6-7 Feb.
Kilpatrick's expedition against Richmond, Va. 28 Feb.-4 Mar.

3 Louisiana, trans-Mississippi 1 Jan.-30 June
Red river, La. campaign 10 Mar.-22 May
Camden, Ark. expedition 23 Mar.-3 May

4 South Carolina, Florida, Georgia coast 1 Jan.-13 Nov
Charleston, S. C. harbor and vicinity
Florida expedition 5-22 Feb.
Engagement at Olustee or Ocean Pond, Fla. 20 Feb.

5 Southeastern Virginia, North Carolina 1 May-12 June
Engagement at Proctor's Creek and Drewry's Bluff or Fort Darling, Va. 12-16 May
Operations on the Bermuda Hundred, Va. front 17 May-2 June
Engagement at Petersburg, Va. 9 June

6 Battle of the Wilderness, Va. 5-7 May

7 Operations about Spottsylvania Court-House, Va. 8-21 May

8 Operations at and about Cold Harbor, Va. 31 May-12 June

9 Northern Virginia, West Virginia, Maryland, Pennsylvania 1 May-3 Aug.
Engagement at New Market, Va. 15 May
Lynchburg, Va. campaign 26 May-29 June
Battle of the Monocacy, Md. 9 July
Action near Fort Stevens, D. C. 12 July

973.737 Campaign of 1864, *continued*

1 Northern Georgia 1 May-8 Sep.
  Atlanta, Ga. campaign
    Battle of Atlanta, Ga. 22 July
2 Kentucky, southwest Virginia, Tennessee, Mississippi, Alabama north Georgia 1 May-13 Nov.
  Engagement at Harrisburg, near Tupelo, Miss. 14-15 July
  Operations in Mobile bay, Ala. 2-23 Aug.
  Engagement at Allatoona, Ga. 5 Oct.
3 Southeastern Virginia, North Carolina 13 June-31 July
  Richmond, Va. campaign
    Assaults on the Petersburg lines 15-18 June
    Explosion of the mine and assault on the crater 30 July
4 Louisiana, trans-Mississippi 1 July-31 Dec.
  Price's Missouri expedition 29 Aug.-2 Dec.
5 Southeastern Virginia, North Carolina 1 Aug.-31 Dec.
  Richmond, Va. campaign
  Expedition to Fort Fisher, N. C. 7-27 Dec.
6 Northern Virginia, West Virginia, Maryland, Pennsylvania 4 Aug.-31 Dec.
7 Shenandoah valley campaign, Va. 7 Aug.-28 Nov.
    Battle of Winchester, or the Opequon, Va. 19 Sep.
    Battle of Cedar creek, Va. 19 Oct.
8 South Carolina, Georgia, Florida 14 Nov.-31 Dec.
  Savannah, Ga. campaign, or Sherman's march to the sea 15 Nov.-21 Dec.
9 Kentucky, southwest Virginia, Tennessee, Mississippi, Alabama, north Georgia 14 Nov.-23 Jan. 1865
  Battle of Franklin, Tenn. 30 Nov.
  Battle of Nashville, Tenn. 15-16 Dec.

.738 Campaign of 1865

1 Northern and southeastern Virginia, North Carolina, West Virginia, Maryland, Pennsylvania 1 Jan.-30 June
2 Richmond, Va. campaign 1 Jan.-3 Ap.
3 Expedition to and capture of Fort Fisher, N. C. 3-17 Jan.
4 Appomattox, Va. campaign 29 Mar.-9 Ap.
    Battle of Five Forks, Va. 1 Ap.
    Surrender of Gen. Lee 9 Ap.
5 North Carolina, South Carolina, southern Georgia, east Florida 1 Jan.-30 June
  Campaign of the Carolinas 1 Jan.-26 Ap.
6 Louisiana, trans-Mississippi 1 Jan.-30 June
7 Kentucky, southwestern Virginia, Tennessee, northern and central Georgia, Mississippi, Alabama, west Florida 1 Jan.-30 June
  Wilson's raid from Chickasaw to Selma, Ala. and Macon, Ga. 22 Mar.-24 Ap.
8 Mobile, Ala. campaign 17 Mar.-4 May
9 Pacific coast 1 Jan. 1861–30 June 1865

973.74 **General military history**

.741 Northern side

1 Regular army

2 Volunteers, quotas

3 Bounties

4 Drafts

5 Negro troops

6 Special armies or corps

Army of the Cumberland
Army of the Potomac
2d army corps
19th army corps etc.

7 Special branches or services

Cavalry
Artillery
Engineers
Signal service
Guerrillas
Commissariat

8 General orders

9 Regimental losses

742 Southern side

Guerrillas

.743 Foreign elements

Divided like 940

.744-.749 Separate states and regimental histories

Divided like 974-979; 973.7444, Massachusetts; 973.7447, New York. Under each state arrange books by the following book numbers.

A for official publications

A 1 Adjutant-general's reports

A 2 Lists of soldiers

B-D, General works on the part taken by the state in the conflict

E Histories of cavalry regiments

F Heavy artillery

G Light artillery

J-L Infantry

J regiments 1-99
K regiments 100-199
L regiments 200-299

The individual regiment is marked by adding its number after the letter; E15, 15th regiment of cavalry; K49, 149th regiment of infantry. When there are more than 9 regiments 0 must be prefixed to the number for the 1st 10 regiments, J09 9th regiment of infantry.

For the border states which also had regiments on the confederate side use similarly P-S.

P Cavalry

Q Heavy artillery

R Light artillery

S Infantry

For those states which passed ordinances of secession (see list under 973.713) reverse these numbers using E-L for confederate regiments and P-S for Union regiments.

Special numbers must be arranged for unnumbered and peculiarly numbered regiments and companies.

973.75 **Naval history**

During the civil war the navy was mainly used as an auxiliary to the army and nearly all naval actions are also described in connection with special campaigns and battles 973.73 and its subdivisions.

.751 Events of 1861

Hatteras inlet, N. C. 28 Aug. See also 973.7316

Port Royal, S. C. 7 Nov. See also 973.7319

Belmont, Mo. 7 Nov. See also 973.7315

Trent affair 8 Nov. See also 973.722

.752 Events of 1862

Fort Henry, Tenn. 6 Feb. See also 973.7322

Roanoke island, N. C. 7-8 Feb. See also 973.7324

Fort Donelson, Tenn. 14 Feb. See also 973.7322

Monitor and Merrimac 8-9 Mar.

Island no. 10, Ky. 16 Mar.-8 Ap. See also 973.7325

New Orleans, La. 18 Ap.-1 May. See also 973.7321

Memphis, Tenn. 6 June. See also 973.7325

.753 Events of 1863

Charleston, S. C. 7 Ap. See also 973.7331

Vicksburg, Miss. 16 Ap. See also 973.7343

Grand Gulf, Miss. 29 Ap. See also 973.7343

.754 Events of 1864

Red river, La. expedition 10 Mar.-22 May. See also 973.7363

Sassacus and Albemarle, Albemarle sound, N. C. 5 May See also 973.7365

Alabama and Kearsarge, off Cherbourg, France 19 June

Mobile bay, Ala. 5-22 Aug. See also 973.7372

Fort Fisher, N. C. 24 Dec. See also 973.7375

.755 Events of 1865

Fort Fisher, N. C. 14-15 Jan. See also 973.7383

.756 History of special squadrons or ships

Atlantic squadron

Gulf squadron

.757 Confederate navy

Including the history of special squadrons or ships.

Alabama

Shenandoah

Florida

.758 Blockade and blockade running

.759 Privateers

.76 **War meetings, celebrations, anniversaries, commemorations**

See note under 973.36

For patriotic societies commemorating the civil war see 369.15-17

.761 War meetings

.762

.763 Flags; presentations of flags; Battle-flag day

.764

.765 Monuments, memorials. See also 718

.766

.767 Roll of honor. List of dead. For national cemeteries, see 719

.768 Memorial day

973.77 **Prisons, hospitals, charities, etc.**

.771 Southern prisons, prison life

1 Andersonville

2 Libby prison

.772 Northern prisons

.773 Exchange of prisoners, paroles

.774

.775 Medical dep't, surgeons, nurses. For military surgery see 617.99

.776 Hospitals, hospital sketches

.777 Charities

1 U. S. sanitary commission

2 Sanitary fairs

Soldiers homes, see 362.8

Soldiers orphan asylums, see 362.7

Freedmen's bureau, see 361

Pensions, 351.5

.778 Religious life, chaplains, revivals

1 U. S. Christian commission. See also 267.11

.78 **Personal narratives, vindication, secret service**

Personal narratives when relating to some special battle or event should be clast according to their subject

.781 Personal narratives, northern side

Including volumes of G. A. R. papers and Loyal legion

.782 Personal narratives, southern side

.783 Army life

.784 Southern army life, southern home life

.785 Secret service, spies

.786 Southern side

.79 **Illustrative material**

See note under 973.39

.791 Poetry

.792 Drama

.793 Fiction

.794 Addresses

.795 Sermons

.796 Humor

.797 Pictures

.798 Music

.799 Maps

.8 Later 19th century 1865–1901

Period of reconstruction and civil service reform

.81 **Andrew Johnson** 15 Ap. 1865—4 Mar. 1869

Born 29 Dec. 1808; died 31 July 1875

13th amendment abolishing slavery, adopted 18 Dec. 1865

See 326.8 and 342.739

Fenian invasion of Canada 31 May-2 June 1866. See 971

Nebraska admitted, 37th state, 1 Mar. 1867. See 978.2

Cession of Alaska by Russia 20 June 1867

Impeachment of Pres. Johnson Mar.-May 1868. See 351.99

14th amendment guaranteeing citizenship, adopted 28 July 1868

See 342.739

973.82 **Ulysses Simpson Grant** **4 Mar. 1869—4 Mar. 1877**

Born 27 Ap. 1822; died 23 July 1885

Treaty for annexation of Santo Domingo, signed 29 Nov. 1869; rejected by senate 30 June 1870. See 972.93

15th amendment guaranteeing suffrage, adopted 30 Mar. 1870 See 324.1 and 342.739

First provision for civil service reform 3 Mar. 1871. See 351.6

Geneva arbitration award 14 Sep. 1872. See 341.6; 973.722; 973.757

Northwestern or San Juan boundary decision, Emperor William I of Germany, arbitrator, 23 Oct. 1872

Credit Mobilier investigation Dec. 1872-Feb. 1873

Coinage act 12 Feb. 1873. See 332.47

Modoc war, California, Nov. 1872-June 1873

Financial panic 19-30 Sep. 1873. See 332

Virginius incident Oct.-Dec. 1873

Whisky ring 1872-75. See 336.73

Civil rights act 1 Mar. 1875

Colorado admitted, 38th state, 1 Aug. 1876. See 978.8

Centennial exposition, Philadelphia, 10 May-10 Nov. 1876. See 606

Electoral commission, Feb. 1877

.83 **Rutherford Birchard Hayes** **4 Mar. 1877—4 Mar. 1881**

Born 4 Oct. 1822; died 17 Jan. 1893

Halifax fishery award 23 Nov. 1877

Bland silver act 28 Feb. 1878. See 332.47

Resumption of specie payment 1 Jan. 1879. See 332.5 and 336.73

.84 **James Abram Garfield** **4 Mar. 1881—19 Sep. 1881**

Born 19 Nov. 1831; died 19 Sep. 1881

Chester Alan Arthur **19 Sep. 1881—4 Mar. 1885**

Born 5 Oct. 1830; died 18 Nov. 1886

International cotton exposition 5 Oct.-31 Dec. 1881. See 606

Edmund act to suppress polygamy 22 Mar. 1882. See 298

Pendleton civil service reform act 11 Jan. 1883. See 351.6

.85 **Grover Cleveland** **4 Mar. 1885—4 Mar. 1889**

Born 18 Mar. 1839

Act regulating the presidential succession 19 Jan. 1886. See 353.03

Mexican war pension act 29 Jan. 1887. See 351.5

Act creating Inter-state commerce commission 4 Feb. 1887. See 385

Dependent pension bill vetoed 11 Feb. 1887. See 351.5

Centennial anniversary of Constitution, Philadelphia, Pa. 15-17 Sep. 1887

Act to establish the Dep't of labor 13 June 1888. See 331

Fisheries treaty, signed 15 Feb. 1888; rejected by senate 21 Aug. 1888. See 33[illegible].9 and 341.273

Act to make Dep't of agriculture an executive dep't 9 Feb. 1889 See 630.6 and 353.8

973.86 **Benjamin Harrison** **4 Mar. 1889—4 Mar. 1893**
Born 20 Aug. 1833
Opening of Oklahoma 2 Ap. 1889. See 976.6
North Dakota admitted, 39th state, 2 Nov. 1889. See 978.4
South Dakota admitted, 40th state, 2 Nov. 1889. See 978.3
Montana admitted, 41st state, 8 Nov. 1889. See 978.6
Washington admitted, 42d state, 11 Nov. 1889. See 979.7
International American conference 2 Oct. 1889-19 Ap. 1890
See 341.1
Idaho admitted, 43d state, 3 July 1890. See 979.6
Wyoming admitted, 44th state, 10 July 1890. See 978.7
Sherman silver act, repealing silver act of 1878, 14 July 1890.
See 332.47
McKinley tariff act 1 Oct. 1890. See 337.3
Controversy with Chile Oct. 1891–July 1892. See 983
Geary Chinese exclusion act 5 May 1892. See 325.251
Bering sea arbitration treaty 23 Aug. 1892
Hawaiian annexation treaty sent to senate 15 Feb. 1893; withdrawn 9 Mar. 1893. See 996.9

.87 **Grover Cleveland, second term** **4 Mar. 1893—4 Mar. 1897**
World's Columbian exposition, Chicago, 1 May-30 Oct. 1893. See 606
Decision of Bering sea court of arbitration 15 Aug. 1893
Voorhees silver act 1 Nov. 1893. See 332.47
Wilson tariff act 27 Aug. 1894. See 337.2
Income tax law decided unconstitutional by U. S. supreme court 8 Ap. 1895. See 336.24
U. S. commission on boundary between Venezuela and British Guiana appointed 1 Jan. 1896. See 987
Utah admitted, 45th state, 4 Jan. 1896. See 979.2

.88 **William McKinley** **4 Mar. 1897—**
Born 29 Jan. 1844
Dingley tariff act 24 July 1897
Annexation of Hawaii 7 July 1898

.89 War with Spain
War declared 21 Ap. 1898
Protocol signed 12 Aug. 1898
Treaty of peace signed at Paris 10 Dec. 1898; ratified 11 April 1899

.891 Political history; causes, results
Spanish misrule in Cuba
Destruction of battleship Maine 15 Feb. 1898

.892 Diplomatic history

.893 Special campaigns and battles
Siege of Santiago 22 June-17 July 1898
Battle of El Caney 1 July 1898

.894 General military history
May be subdivided like 973.74

.895 Naval history
Battle of Manila 1 May 1898
Sinking of the Merrimac 3 June 1898
Destruction of Cervera's squadron 3 July 1898

.896 War meetings, celebrations, anniversaries

.897 Prisons, hospitals, etc.

.898 Personal narratives

.899 Illustrative materials

974 North-Eastern or North Atlantic. New England.

.1 **Maine.**

.11 Aroostook.

.12 Somerset. Piscataquis.

.13 Penobscot.

.14 Washington. Hancock.

.15 Waldo. Knox. Lincoln.

.16 Kennebec.

.17 Franklin. Oxford.

.18 Androscoggin. Sagadahoc.

.19 Cumberland. York.

974.2 **New Hampshire.**

.21 Coos.

.22 *White Mts.*

.23 Grafton.

.24 Carroll. Belknap.

.25 Strafford.

.26 Rockingham.

.27 Merrimac. Sullivan.

.28 Hillsborough.

.29 Cheshire.

.3 **Vermont.**

.31 Grand Isle. Franklin. Chittenden.

.32 Orleans. Essex.

.33 Caledonia. Lemoille.

.34 Washington.

.35 Addison.

.36 Orange. Windsor.

37 Rutland.

.38 Bennington.

.39 Windham.

.4 **Massachusetts.**

.41 Berkshire.

.42 Franklin. Hampshire. Hampden.

.43 Worcester.

.44 Middlesex.

.45 Essex.

.46 Suffolk. *Boston.*

.47 Norfolk.

.48 Plymouth. Bristol.

.49 Barnstable. Dukes. Nantucket.

.5 **Rhode Island.**

.51 Providence.

.52 *Providence city.*

.53 *Pawtucket.*

.54 Kent.

.55 Bristol.

.56 Newport.

.57 *Newport city.*

.58 *Block Island.*

.59 Washington.

.6 **Connecticut.**

.61 Litchfield.

.62 Hartford.

.63 *Hartford city.*

.64 Tolland. Windham.

.65 New London.

.66 Middlesex.

.67 New Haven.

.68 *New Haven city.*

.69 Fairfield.

974.7 **New York.**

.71 New York City.

.72 Vicinity of New York City.

1, **Long Island**; 2, Kings Co.; 3, *Brooklyn;* 4, **Queens Co.**; 5, Suffolk Co.; 6, Richmond Co., Staten Island; 7, **Westchester** Co.; 8, Rockland Co.

.73 Southeast counties.

1, Orange, *West Point;* 2, Putnam; 3, **Dutchess**; 4, **Ulster**; 5, Sullivan; 6, Delaware; 7, Green; 8, *Catskill Mts.;* 9, **Columbia.**

.74 Middle east counties.

1, Rensselaer, *Troy;* 2, Albany; 3, *Albany City;* 4, **Schenectady**; 5, Schoharie; 6, Montgomery; 7, Fulton; 8, **Saratoga**; 9, Washington.

75 Northern counties.

1, Warren, *Lake George;* 2, Hamilton; 3, **Essex**, *Adirondacks;* 4, Clinton, *Lake Champlain;* 5, Franklin; 6, **St. Lawrence**; 7, Jefferson; 8, *The Thousand Islands;* 9, **Lewis.**

.76 North central counties.

1, Herkimer; 2, Oneida; 3, *Utica;* 4, **Madison**; 5, **Onondaga**; 6, *Syracuse;* 7, Oswego; 8, Cayuga; 9, Seneca.

.77 South central counties.

1, Tompkins; 2, Cortland; 3, Chenango; 4, **Otsego**; 5, **Broome**; 6, *Binghamton;* 7, Tioga; 8, Chemung; 9, *Elmira.*

.78 West central counties.

1, Schuyler; 2, Yates; 3, Steuben; 4, Alleghany; 5, **Livingston**; 6, Ontario; 7, Wayne; 8, Monroe; 9, *Rochester.*

.79 Western counties.

1, Orleans; 2, Genesee; 3, Wyoming; 4, Cattaraugus; 5, Chautauqua; 6, Erie; 7, *Buffalo;* 8, Niagara; 9, *Niagara Falls.*

.8 **Pennsylvania.**

.81 Southeast counties. Philadelphia and Chester group.

1, Philadelphia; 2, Montgomery; 3, Chester; 4, **Delaware**; 5, **Lancaster**; 6, Berks; 7, Schuylkill; 8, Dauphin; 9, **Lebanon.**

.82 Eastern counties. Bucks group.

1, Bucks; 2, Northampton; 3, Wayne; 4, Pike; 5, **Monroe**; 6, Carbon; 7, Lehigh.

.83 Northeast counties. Northumberland group.

1, Northumberland; 2, Luzerne; 3, *Wilkes-Barré;* 4, **Susquehanna**; 5, Wyoming; 6, Lackawanna; 7, *Scranton;* 8, **Columbia**; 9, Montour.

.84 Southeast central counties. Cumberland group.

1, York; 2, Adams; 3, Cumberland; 4, **Franklin**; 5, **Perry**; 6, **Mifflin**; 7, Juniata; 8, Union; 9, Snyder.

.85 Northeast central counties. East Lycoming group.

1, Lycoming; 2, ; 3, Centre; 4, **Clinton**; 5, **Potter**; 6, Tioga; 7, Bradford; 8, ; 9, Sullivan.

.86 Northwest central counties. West Lycoming group.

1, Clearfield; 2, Jefferson; 3, McKean; 4, ; 5, **Elk**; 6, Cameron; 7, Warren; 8, Forest; 9, Clarion.

.87 Southwest central counties. Bedford group.

1, Bedford; 2, Fulton; 3, Huntingdon; 4, ; 5, **Blair**; 6, *Altoona;* 7, Cambria; 8, ; 9, **Somerset.**

.88 Southwest counties. Westmoreland group.

1, Westmoreland; 2, Washington; 3, Greene; 4, **Fayette**; 5, Alleghany; 6, *Pittsburgh;* 7, *Alleghany City;* 8, **Armstrong**; 9, **Indiana.**

.89 Northwest counties. Alleghany group.

1, Butler; 2, Beaver; 3, Lawrence; 4, ; 5, **Mercer**; 6, Venango; 7, Crawford; 8, ; 9, **Erie.**

974.9 **New Jersey.**

.91 **East Jersey.**

.92 Northern counties.

1, Bergen; 2, ; 3, Passaic; 4, *Paterson;* 5, ;
6, Hudson; 7, *Jersey City;* 8, *Hoboken.*

.93 Central counties.

1, Essex; 2, *Newark;* 3, *Orange;* 4, ; 5, ;
6, Union; 7, *Elizabeth;* 8, *Rahway.*

.94 Southern counties.

1, Middlesex; 2, *New Brunswick;* 3, ; 4, Somerset;
5, ; 6, Monmouth; 7, ; 8, Ocean.

.95 **West Jersey.**

.96 Central counties.

1, Burlington; 2, ; 3, ; 4, ;
5, Mercer; 6, *Trenton;* 7, *Princeton.*

.97 Northern counties.

1, Hunterdon; 2, *Raritan;* 3, ; 4, Morris; 5, ;
6, Sussex; 7, ; 8, Warren.

.98 Upper southern counties.

1. Gloucester; 2, ; 3, ; 4, Atlantic; 5, ;
6, ; 7, Camden; 8, *Camden city.*

.99 Lower southern counties.

1, Salem; 2, *Salem city:* 3, ; 4, Cumberland; 5, *Bridgeton;* 6, ; 7, ; 8, Cape May.

975 South-Eastern or South Atlantic.

Including general works on "the South."

975.1 Delaware

Area 2,050 sq. mi.
Population 168,493 in 1890
3 counties

		Population	
.11	Newcastle	97 182	
.12	*Wilmington*		*61 431*
.14	Kent	32 664	
.17	Sussex	38 647	

975.2 Maryland

Area 12,210 sq. mi.
Population 1,042,390 in 1890
23 counties and Baltimore city

			Population	
.21	Eastern Maryland			
	.221	Worcester	19 747	
	.223	Somerset	24 155	
	.225	Wicomico	19 930	
	.227	Dorchester	24 843	
	.231	Caroline	19 903	
	.232	Talbot	19 736	
	.234	Queen Anne	18 461	
	.236	Kent	17 471	
	.238	Cecil	25 851	
.24	Southern Maryland			
	.241	St Mary	15 819	
	.244	Calvert	9 860	
	.247	Charles	15 191	
	.251	Prince George	26 080	
	.255	Anne Arundel	34 094	
	.256	*Annapolis*		*7 604*
.26		*Baltimore* (city)		*434 439*
.27	North Central			
	.271	Baltimore	72 909	
	.274	Harford	25 993	
	.277	Carroll	32 376	
	.281	Howard	16 269	
	.284	Montgomery	27 185	
	.287	Frederick	49 512	
	.288	*Frederick* (city)		*8 193*
.29	Western			
	.291	Washington	39 782	
	.292	*Hagerstown*		*10 118*
	.294	Allegany	41 571	
	.295	*Cumberland*		*12 729*
	.297	Garrett	14 213	

.3 District of Columbia.

.4 West Virginia.

.5 Virginia.

.6 North Carolina.

.7 South Carolina.

.8 Georgia.

.9 Florida.

976 South Central or Gulf.

.1 **Alabama.**

.2 **Mississippi.**

.3 **Louisiana.**

.4 **Texas.**

.5

.6 **Indian Territory. Oklahoma.**

.7 **Arkansas.**

.8 **Tennessee.**

.9 **Kentucky.**

977 North Central or Lake.

.1 **Ohio.**

.2 **Indiana**

1809 Indiana territory with present boundaries established

1816 Indiana admitted
Area 36,350 sq. mi.
Population 2,192,404 in 1890
92 counties

			Population	
.21	Southeast counties			
	.211	Dearborn	23 364	
	.212	Ohio	4 955	
		Switzerland	12 514	
	.213	Jefferson	24 507	
	.214	Ripley	19 350	
	.215	Franklin	18 366	
	.216	Decatur	19 277	
	.217	Jennings	14 608	
	.218	Scott	7 833	
		Clark	30 259	
		Jeffersonville		*10 666*
	.219	Floyd	29 458	
		New Albany		*21 059*
.22	Central south counties			
	.221	Harrison	20 786	
	.222	Washington	18 619	
	.223	Jackson	24 139	
	.224	Bartholomew	23 867	
	.225	Brown	10 300	
		Monroe	17 673	
	.226	Lawrence	19 792	
	.227	Orange	14 678	
	.228	Crawford	13 941	
	.229	Perry	18 240	

Indiana

			Population	
977.23	Southwest counties			
	.231	Spencer	22 060	
	.232	Warrick	21 161	
	.233	Vanderburg	57 809	
		Evansville		*50 756*
	.234	Posey	21 529	
	.235	Gibson	24 920	
	.236	Pike	18 544	
	.237	Dubois	20 253	
	.238	Martin	13 973	
		Daviess	26 227	
	.239	Knox	28 044	
.24	West central counties			
	.241	Sullivan	21 877	
	.242	Greene	24 379	
	.243	Owen	15 040	
	.244	Clay	30 536	
	.245	Vigo	50 195	
		Terre Haute		*30 217*
	.246	Vermilion	13 154	
		Parke	20 296	
	.247	Fountain	19 558	
	.248	Montgomery	28 025	
	.249	Putnam	22 335	
.25	Central counties			
	.251	Morgan	18 643	
		Johnson	19 561	
	.252	Marion	141 156	
		Indianapolis		*105 436*
	.253	Hendricks	21 498	
	.254	Boone	26 572	
	.255	Clinton	27 370	
		Tipton	18 157	
	.256	Hamilton	26 123	
	.257	Madison	36 487	
		Anderson		*10 741*
	.258	Hancock	17 829	
	.259	Shelby	25 454	
.26	East central counties			
	.261	Rush	19 034	
	.262	Fayette	12 630	
		Union	7 006	
	.263	Wayne	37 628	
		Richmond		*16 608*
	.264	Henry	23 879	
	.265	Delaware	30 131	
		Muncie		*11 345*
	.266	Randolph	28 085	
	.267	Jay	23 478	
	.268	Blackford	10 461	
	.269	Grant	31 493	

Indiana

			Population	
977.27		Northeast counties		
	.271	Huntington	27 644	
	.272	Wells	21 514	
	.273	Adams	20 181	
	.274	Allen	66 680	
		Fort Wayne		*35 393*
	.275	Whitley	17 768	
	.276	Noble	23 359	
	.277	Dekalb	24 307	
	.278	Steuben	14 478	
	.279	Lagrange	15 615	
.28		Central north counties		
	.281	Elkhart	39 201	
	.282	Kosciusko	28 645	
	.283	Wabash	27 126	
	.284	Miami	25 823	
	.285	Howard	26 186	
	.286	Cass	31 152	
		Logansport		*13 328*
	.287	Fulton	16 746	
	.288	Marshall	23 818	
	.289	St Joseph	42 457	
		South Bend		*21 819*
.29		Northwest counties		
	.291	Laporte	34 445	
		Michigan City		*10 776*
	.292	Starke	7 339	
		Pulaski	11 233	
	.293	White	15 671	
	.294	Carroll	20 021	
	.295	Tippecanoe	35 078	
		Lafayette		*16 243*
	.296	Warren	10 955	
	.297	Benton	11 903	
		Newton	8 803	
		Jasper	11 185	
	.298	Porter	18 052	
	.299	Lake	23 886	

9.7.3 Illinois

1809 Illinois territory formed
3 Dec. 1818 Illinois admitted
Area 56,650 sq. mi.
Population 3,826,351 in 1890
102 counties

			Population	
.31	Cook		1 191 922	
		Chicago		*1 099 850*
.32	Northeast counties			
	.321	Lake	24 235	
	.322	McHenry	26 114	
	.323	Kane	65 061	
		Aurora		*19 688*
		Elgin		*17 823*
	.324	Dupage	22 551	
	.325	Will	62 007	
		Joliet		*23 264*
	.326	Kendall	12 106	
		Grundy	21 024	
	.327	Lasalle	80 798	
		Streator		*11 414*
	.328	Dekalb	27 066	
	.329	Boone	12 293	
.33	Northwest counties			
	.331	Winnebago	39 938	
		Rockford		*23 584*
	.332	Ogle	28 710	
	.333	Stephenson	31 338	
		Freeport		*10 189*
	.334	Jo Daviess	25 101	
		Carroll	18 320	
	.335	Whiteside	30 854	
	.336	Lee	26 187	
	.337	Bureau	35 014	
		Putnam	4 730	
	.338	Henry	33 338	
	.339	Rock Island	41 917	
		Rock Island (city)		*13 534*
		Moline		*12 000*
		Mercer	18 545	
.34	West central counties			
	.341	Henderson	9 876	
		Warren	21 281	
	.342	McDonough	27 467	
	.343	Hancock	31 907	
	.344	Adams	61 888	
		Quincy		*31 494*
	.345	Pike	31 000	
		Scott	10 304	
	.346	Morgan	32 636	
		Jacksonville		*12 935*
		Cass	15 963	
	.347	Brown	11 951	
		Schuyler	16 013	
	.348	Fulton	43 110	
	.349	Knox	38 752	

Illinois

			Population	
977.35	Central counties			
	.351	Stark	9 982	
		Marshall	13 653	
	.352	Peoria	70 378	
		Peoria (city)		*41 024*
	.353	Woodford	21 429	
	.354	Tazewell	29 556	
	.355	Mason	16 067	
		Menard	13 120	
	.356	Sangamon	61 195	
		Springfield		*24 963*
	.357	Logan	25 489	
	.358	Macon	38 083	
		Decatur		*16 841*
		Dewitt	17 011	
	.359	McLean	63 036	
		Bloomington		*20 434*
.36	East central counties			
	.361	Livingston	38 455	
	.362	Ford	17 035	
	.363	Kankakee	28 732	
	.364	Iroquois	35 167	
	.365	Vermilion	49 905	
		Danville		*11 491*
	.366	Champaign	42 159	
	.367	Piatt	17 062	
		Moultrie	14 431	
	.368	Douglas	17 669	
	.369	Edgar	26 787	
.37	Southeast counties			
	.371	Clark	21 899	
	.372	Coles	30 093	
	.373	Cumberland	15 443	
	.374	Jasper	18 188	
	.375	Crawford	17 283	
	.376	Lawrence	14 693	
	.377	Richland	15 019	
	.378	Wabash	11 866	
	.379			
		1 Edwards	9 444	
		2 Wayne	23 806	
		3 Jefferson	22 590	
		4 Marion	24 341	
		5 Clay	16 772	
		6 Effingham	19 358	
		7 Fayette	23 367	
		8 Shelby	31 191	

Illinois

977.38	Southwest counties			
			Population	
	.381	Christian	30 531	
	.382	Montgomery	30 003	
	.383	Macoupin	40 380	
	.384	Greene	23 791	
	.385	Calhoun	7 652	
		Jersey	14 810	
	.386	Madison	51 535	
		Alton		*10 294*
	.387	Bond	14 550	
		Clinton	17 411	
	.388	Washington	19 262	
	.389	St Clair	66 571	
		Belleville		*15 361*
		East St Louis		*15 169*
.39	Southern counties			
	.391	Monroe	12 948	
	.392	Randolph	25 049	
	.393	Perry	17 529	
	.394	Franklin	17 138	
	.395	Hamilton	17 800	
	.396	White	25 005	
	.397	Gallatin	14 935	
	.398	Hardin	7 234	
	.399			
		1 Pope	14 016	
		2 Saline	19 342	
		3 Williamson	22 226	
		4 Jackson	27 809	
		5 Union	21 549	
		6 Johnson	15 013	
		7 Massac	11 313	
		8 Pulaski	11 355	
		9 Alexander	16 563	
		Cairo		*10 324*

977.4 Michigan

1805 Organized as separate territory
1837 Admitted
Area 78,915 sq. mi
Population 2,093,889 in 1890
84 counties

Lower peninsula

			Population	
.41	Southwest counties			
	.411	Berrien	41 285	
	.412	Cass	20 953	
	.413	Van Buren	30 541	
	.414	Allegan	38 961	
	.415	Ottawa	35 358	
	.416	Barry	23 783	
	.417	Kalamazoo	39 273	
	.418	*Kalamazoo* (city)		*17 853*
	.419	St Joseph	25 356	
.42	Central south counties			
	.421	Branch	26 791	
	.422	Calhoun	43 501	
		Battle Creek		*13 197*
	.423	Eaton	32 094	
	.424	Clinton	26 509	
	.425	Shiawassee	30 952	
	.426	Ingham	37 666	
	.427	*Lansing*		*13 102*
	.428	Jackson	45 031	
		Jackson (city)		*20 798*
	.429	Hillsdale	30 660	
.43	Southeast counties			
	.431	Lenawee	48 448	
	.432	Monroe	32 337	
	.433	Wayne	257 114	
	.434	*Detroit*		*205 876*
	.435	Washtenaw	42 210	
	.436	Livingston	20 858	
	.437	Genesee	39 430	
	.438	Oakland	41 245	
	.439	Macomb	31 813	
.44	Southeast central counties			
	.441	St Clair	52 105	
		Port Huron		*13 543*
	.442	Lapeer	29 213	
	.443	Sanilac	32 589	
	.444	Huron	28 545	
	.445	Tuscola	32 508	
	.446	Saginaw	82 273	
		Saginaw (city)		*46 322*
	447	Bay	56 412	
		Bay City		*27 839*
		West Bay City		*12 981*
	.448	Midland	10 657	
	.449	Gratiot	28 668	

Michigan

			Population	
977.45	Southwest central counties			
	.451	Isabella	18 784	
	.452	Mecosta	19 697	
	.453	Montcalm	32 637	
	.454	Ionia	32 801	
	.455	Kent	109 922	
	.456	*Grand Rapids*		*60 278*
	.457	Muskegon	40 013	
		Muskegon(city)		*22 702*
	.458	Newaygo	20 476	
	.459	Oceana	15 698	
.46	Northwest central counties			
	.461	Mason	16 385	
	.462	Manistee	24 230	
		Manistee (city)		*12 812*
	.463	Benzie	5 237	
		Leelanaw	7 944	
	.464	Grand Traverse	13 355	
	.465	Kalkaska	5 160	
	.466	Missaukee	5 048	
	.467	Wexford	11 278	
	.468	Lake	6 505	
	.469	Osceola	15 630	
.47	Northeast central counties			
	.471	Clare	7 558	
	.472	Gladwin	4 208	
	.473	Arenac	5 683	
	.474	Iosco	15 224	
	.475	Ogemaw	5 583	
	.476	Roscommon	2 033	
	.477	Crawford	2 962	
	.478	Oscoda	1 904	
	.479	Alcona	5 409	
.48	Northern counties			
	.481	Alpena	15 581	
	.482	Presque Isle	4 687	
	.483	Montmorency	1 487	
	.484	Otsego	4 272	
	.485	Antrim	10 413	
	.486	Charlevoix	9 686	
	.487	Cheboygan	11 986	
	.488	Emmet	8 756	
	.489	Manitou	860	

Michigan

977.49 **Upper peninsula**

		Population	
.491	Chippewa	12 019	
.492	Mackinac	7 830	
	Luce	2 455	
.493	Alger	1 238	
	Schoolcraft	5 818	
.494	Delta	15 330	
.495	Menominee	33 639	
	Menominee (city)		*10 630*
	Dickinson	Formed after 1890	
.496	Marquette	39 521	
	Ishpeming		*11 197*
.497	Baraga	3 036	
	Iron	4 432	
.498	Gogebic	13 166	
	Ontonagon	3 756	
.499	Houghton	35 389	
	Keweenaw	2 894	
	Isle Royale	135	

.5 **Wisconsin.**

.6 **Minnesota.**

.7 **Iowa.**

.8 **Missouri.**

.9

978 Western or Mountain.

Including general works on "the West."

.1 **Kansas.**

.2 **Nebraska.**

.3 **South Dakota.** Including works on Dakota as a whole.

.4 **North Dakota.**

.5

.6 **Montana.**

.7 **Wyoming.**

.8 **Colorado.**

.9 **New Mexico.**

979 Pacific.

.1 **Arizona.**

.2 **Utah.**

.3 **Nevada.**

.4 **California.**

.5 **Oregon.**

.6 **Idaho.**

.7 **Washington.**

.8 **Alaska.**

980 South America.

981 Brazil.

982 Argentine Republic. Patagonia.

983 Chile.

984 Bolivia.

985 Peru.

986 U. S. of Colombia. New Granada. Ecuador.

987 Venezuela.

988 Guiana.

989 Paraguay. Uruguay.

990 Oceanica. Polar Regions.

991 Malaysia.

.1, Borneo; .2, Celebes; .3, Moluccas or Spice Islands; .4, Philippine Islands.

992 Sunda.

.1, Sumatra; .2, Java.

993 Australasia.

.1, New Zealand; .2, New Caledonia; .3, Loyalty Islands; .4, New Hebrides; .5, Solomon Islands; .6, New Britain, New Ireland; .7, Admiralty Islands.

994 Australia.

.1, Western Australia; .2, South Australia; .3, Queensland; .4, New South Wales; .5, Victoria; .6, Tasmania.

995 New Guinea.

996 Polynesia.

.1, Fiji, Friendly and Navigator's Islands; .2, Society, Austral and Cook's Islands; .3, Marquesas Islands and Low Archipelago; .4, Minor Polynesian Islands; .5, Micronesia; .6, Caroline and Pelew Islands; .7, Ladrone Islands; .8, Marshall and Gilbert Islands; .9, Hawaii.

997 Isolated Islands.

998 Arctic Regions.

999 Antarctic Regions.

RELATIV SUBJECT INDEX

HOW TO USE THIS INDEX

Find the subject desired in its alphabetical place in the index. The number after it is its class number and refers to the place where the topic will be found, in numerical order of class numbers, on the shelves or in the subject catalogs. All class numbers are decimals; i. e., 571.34, Bronze remains, comes before 571.4, Iron age, and both of them before 572, Ethnology. Printed labels on the shelves or drawer fronts guide readily to the class number sought.

Under this class number will be found the resources of the library on the subject desired. Other subjects near the one sought may often be consulted with profit; e. g., Communism is the topic wanted and the index refers to 335.4, but 335, Socialism, and even the inclusive division 330, Political economy, also contain much on this subject. The reverse is equally true; the full material on Socialism can only be had by looking at its divisions 335.3, Fourierism, 335.4, Communism, etc. The topics which are thus subdivided are plainly marked in the index by heavy faced type.

Topics accidentally omitted from the index will be found in a supplement at the end.

THIS INDEX CONTAINS

in a single alphabet all the subjects named in the Complete Tables of the Decimal Classification together with their synonyms and such other useful topics as could be found in a selection of the largest dictionary and subject catalogs.

Where nothing is found under any number it shows that the library does not yet possess any book on that topic.

IT DOES NOT INCLUDE

all names of places, minerals, plants, etc., but gives only those used in the full tables and a farther selection of the most common and useful. It is not a biographical dictionary and gives **no names of persons** as biographical headings, but only such as appear in the tables in connection with some subject like Philosophy, Literature, or History.

To avoid swelling the index by frequent repetitions of long lists of sub-divisions under every country, language, etc., five general tables have been prepared; viz. 1, Geographical divisions; 2, Form divisions; 3, Languages; 4, Philological divisions; 5, Literatures. These are placed at the end and referred to from all such topics in the index. Explanations precede each index table.

Aagesen, Svend, Danish miscellany 839.8812
Abacus arithmetic 511.2
Abattoirs architecture 725.28
public health 614.741
sanitary engineering 628.549
Abbassides history 956
Abbeville, treaty of inter. law 341.2
Abbeys architecture 726.7
history **271**
Abbot of misrule customs 394
Abbots monastic orders **271**
Abbreviations English palæography 421.8
Greek palæography 481.8
Latin palæography 471.8
[3] other languages
literary methods 029
shorthand 653
Abchasian language 494
Abdication absolute monarchy 321.6
constitutional history **342**
" monarchy 321.7
Abdomen anatomy 611.95
surgery 617.55
Abduction criminal law 343
Abecedarians christian sect. 284.3
Abelard medieval philosophy 189.4
Abelian functions 517.36
[1] Aberdeen, Scotland, history 941.25
" " travels 914.125
Aberration, astron. corrections 522.94
chromatic optics 535.4
mental disease **616.8**
hospitals 362.2
insanity **132**
spherical optics 535.3
Abeyance 347.6
Ability, human, doctrine 233.4
Abiogenesis animals 591.161
biology 576.1
plants 581.161
Abipones history 982
Abjuration, oath of religious history 283.42
Ablative Latin syntax 475.5
Ablaut English orthography 421.2
German orthography 431.2
[3] other languages
Ablution Anglican ritual 264.035
Abnormal development of embryo 617.3
labor obstetrics 618.5
Abo, peace of treaties 341.2
Abode of animals, geog. distrib. **591.9**
habits 591.52
Abolition political science **326.8**
U. S. history 973.7114
Abolitionists' lives **923.6**
Aborigines Amer. antiquities 913.7
Aborigines Amer. history **970.1**
ethnology 572.97
prehistoric archæology **571**
Abortion ethics 173.4
law **343**
pathology of pregnancy 618.39
About, E. F. V. French fiction 843.86
Abrasions surgery 617.13
Abraxas gems 736
Gnostics 273.1
Abridged notation
mod. analyt. geom. 516.52
Abridging literary methods 029.4
shorthand 653
Abridgments English law 346.5
U. S. law 345.5
[1] Abruzzo, Italy, history 945.71
travels 914.571
Abscess surgery 617.23
in lungs diseases 616.244
Absent-mindedness philosophy 151.4
Absenteeism Irish history 941.5
Absolute geometry 513.8
" The, ontology 111
Absolution sacrament 265.6
Absolutism 321.6
predestination 234.9
Absorbent system animals **591.13**
plants **581.13**
Absorbing wells, sanitation 628.542
Absorption heat physics 536.34
hygiene 613.63
liquids physics 532.7
light optics 535.3
physiology **612.38**
Abstinence asceticism 248
temperance 178.2
Abstraction philosophy 153.3
Abstracts of titles law 347.2
Abutments bridges 624.1
[1] Abyssinia history 963
language 492.8
Academic degrees and costume **378.2**
sermons 252.5
Academicians, biography of 920.6
Academies architecture 727.2
female **376.9**
learned general societies **060**
[2] of special subject see subject
national general societies **060**
[2] of special subject see subject
private **373**
public, history **379**
theory 379.17
scientific 506
Academy, New 186.2

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

INDEX

Academy **Older, Plato** **184**
[1] Acadia, Nova Scotia, history 971.6
Acalepha **zoölogy** **593.73**
Acanthaceæ botany 583.86
Acanthocephala parasites 616.966
Acarnania, Greece, ancient history 938.3
Acceleration of the moon 523.33
[3] Accent pronunciation Eng. language 421.6
[3] prosody " " 426.1
Accession dept. library admin. 025.2
Accessories, architectural **729.9**
Accidence English language 425.1
[3] other languages
Accident insurance 368.4
Accidents dangerous occupations 613.66
medicine 617.1
to miners 622.85
police measures 351.74
protection of public **614.8**
Acclimation hygiene 613.11
Acclimatization of animals 591.52
evolution 575.3
man 573.4
mental influence 136.2
plants 581.52
Accomplices criminal law 343
Accordeon music 788.9
Accountability doctrine 233.4
Accounts, book-keeping 657
library admin. 025.1
supervision of building 692.7
Accoutrements military science 355
Accubation social customs 394.1
Accumulation capital **331**
Accumulators, electrical engin. 621.35
science 537.84
Accusative etymology, Greek 482.5
etymology, Latin 472.5
[3] other languages
syntax, Greek 485.5
syntax, Latin 475.5
[3] other languages
Acephala zoölogy 594.1
Acetates diuretics 615.761
Acetylenes organic chemistry 547.23
Achaia, Greece, ancient history 938.7
Achaian ieague, " " 938.08
Achlamydosporeæ botany **583.94**
Achlorophyllæ botany **589.9**
Achromatism optics 535.4
Acid poisons therapeutics 615.921
waters mining engineering 622.57
Acids aids to digestion 615.7343
chemical technology 661.2
disinfectants 614.484
fixed materia medica 615.34
Acids organic chemistry 547.7
theoretical chemistry 541.4
vegetable drugs 615.338
Acology medicine 615.5
Aconite botany 583.111
economic botany 581.6
medicines 615.323111
poisons 615.98
therapeutics 615.716
Acoustics, applications to architecture 534.84
music 781.1
Acrididæ entomology 595.73
Acrobats amusements 791
ethics 175.1
Acropolis architecture 722.8
Grecian antiquities 913.385
Acrostics **English language** **828**
Actinaria zoölogy 593.65
Acting ethics 175.2
theater 792
Actinism optics 535.85
photography 771
Actinozoa **zoölogy** **593.6**
Actions **legal procedure** **347.9**
Actors' lives 927.92
Acts and resolves Am. statutes 345.1
Eng. " 346.1
Acts of learned societies general **060**
[2] for special subjects see topic
legislative bodies, U. S. **345.1**
Acts of the Apostles 226.6
Acupuncture therapeutics 615.814
Acute diseases 616
Ad valorem duty customs 336.26
Adages **English literature** **828**
[5] other literatures
folk-lore 398.9
Adam, Onkle Swedish fiction 839.7364
Adam de la Halle French drama 842.12
Adamites heresy 273.9
Adams, J: presidency of 973.44
J: Q. " 973.55
[1] Adana, Asiatic Turkey history 956.4
Addison, J., Eng. essays 824.52
Addison's disease 616.45
Addition arithmetic 511.2
Addresses and petitions control of admin. 351.97
[2] on special topics see topic
Addressing machines printing 655.36
Adhesion physics 539.2
[1] Adirondacks history 974.753
[3] Adjective forms, etymol. Eng. lang. 422.6
inflection " " 425.16
[3] syntax " " 425.6
[3] other languages

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Adjutages 532.52
Adjutant General's reports, U. S. 353.6
Administration, library 025
of medicines, therapeutics 615.6
political sci. 350
Administrative action, subjects of 351.7
buildings, architecture 725.1
control 351.91
law 350
reform 351.6
Administrator 347.6
Admirals' lives 923.5
Admiralty English navy 354.427
foreign countries 354
Admiralty Islands history 993.7
Admiralty law 347.7
Admission school 371.21
Adobe masonry 693.22
Adolphus German history 943.026
Adoption family law 347.6
Adoptionists heresies 273.9
Adult mortality public health 614.134
Adulterations, chemical analysis 543
" technology 660
public health 614.3
Adultery ethics 176.6
law 343
Adults, reformatories for, architecture 725.63
Ad valorem duty taxes 336.26
protection 337
Advent Anglican festivals 264.031
Second christology 232.6
Adventists, Second sect 289.3
Adventures biography 923.9
travels, etc. 910
Adverbs, etymology Eng. lang. 422.9
[3] other lang.
syntax Eng. lang. 425.9
[3] other lang.
Adverse possession law 347.2
Adversity pauperism 339
Advertisements building 692.4
Advertising 659
newspaper directories 016.07
publishing 655.55
Advocacy 347.92
Advocates, Faculty of 347.06
lives 923.4
Advowsons canon law 348
Ædiles Roman antiquities 913.37
Ælfric Anglo Saxon lit. 829.6
Æolian harp music 787.5
Æolic dialect Greek language 487.921
Aërated bread 643
waters hygiene 613.38
Aërial erosion, geology 551.37
navigation 533.6
Aërodynamics 533
Aërolites astronomy 523.51
geology 552.6
Aëronautics 533.6
Aërophytes lichens 589.1
orchids 584.15
Æschines Greek oratory 885.5
Æschylus " drama 882.1
Æsop " fables 888.6
Æsthetics 701
architecture 720.1
Æthiopia ancient history 939.78
"Ætna" Latin poem 871.7
Ætolia ancient history 938.3
Ætolian league Greek history 938.08
Affections 157
Affidavits 347.94
Affinity chemical 541.3
family law 347.6
Affixes English language 422.2
[3] other languages
Affliction
[4]Afghani language 491.58
[1]**Afghanistan** history **958**
travel 915.8
[1]**Africa 960**
antiquities 913.6
botany 581.96
geology 556
statistics 316
travels 916
[1] other topics see table 1
Africa, North history 961
travels 916.1
[1]**Africa, North Central, history 966**
[1] Propria, ancient " 939.73
[1] **South Central, " 967**
African colonization, sociology 325.6
history 960
languages 496
Ethiopic 492.8
Hamitic 493
Methodist church 287.8
mortality public health 614.144
slave trade 326.1
Agamogenesis animals 591.165
Age, influence of therapeutics 615.54
mental characteristics 136.5
Age of animals 591.139
man 612.69
natural hist. of man 573.3
statistics 312
pupils 379.14
the world 550.1

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Age of voters 324.1
Aged, homes for architecture 725.56
hospitals for 362.6
Agents, consular 341.8
external therapeutics 615.77
geological 551.9
law 347.4
Ages, archæological 571
geological 551.7
Agglutination philology 401
Agiotage stock exchange 332.6
Agnosticism natural theology 211
philosophy 149.7
Agnostics religious heresy 273.8
Agnus Dei music 783.22
Agrarian laws political science 333
Roman history 937
Agreements building 692.4
ethics 174.7
law 347.4
Agricola, M. German poetry 831.41
Agricultural botany 581.6
chemistry 631
classes pol. econ. 331.8
colonization 325
colleges 630.7
geology agriculture 631
econ. geol. 553.6
implements 630
law 347.2
pests 632
" zoölogy 591.69
products pol. econ. 338.1
societies 630.6
system pol. econ. 330.1
Agriculture 630
administration 351.823
coöperative 334.6
Department of 630.6
Indians 970.6
rent of land 333.5
Agrippa medieval philosophy 189.5
[1]Aguascalientes, Mexico history 972.4
Ague diseases 616.936
Aid societies charitable associations 361
coöperation 334
Aid to the injured 614.88
[1]Aidin, Asia Turkish history 956.2
Aids to digestion therapeutics 615.734
readers library economy 028
[1]Ain, France history 944.4
Air analysis chemistry 543.7
baths, hot, hygiene 613.46
brakes railroad engineering 625.2
compressors mech. engineering 621.5
disinfection contagious diseases 614.48
Air ducts ventilation 697.9
engines mech. engineering 621.4
gun military engineering 623.4
mechanic trades 683
hygiene 613.1
public health 614.7
in towns public health 614.78
meteorology 551.5
passages, anatomy 611.2
diseases 616.2
physiology 612.29
plants lichens 589.1
orchids 584.15
pneumatics 533
pollution, by cemeteries 614.652
public health 614.7
pressure of meteorology 551.54
pump 533.5
spaces public health 614.783
ventilation 628.8
Airways mining engineering 622.45
Airy's theory geodesy 526.14
[1]Aisne, France history 944.34
Aix-la-Chapelle inter. congress 341.1
treaties 341.2
Akenside, M. English poetry 821.62
[1]Alabama, U. S. history 976.1
travel 917.61
Alabama privateers 341.3
Alabama claims, arbitration 341.6
England 942.08
international law 341
neutrals 341.3
United States 973.722
Alamanni, L. Italian poetry 851.36
Alarcon y Mendoza Span. drama 862.34
Alarms, fire local government 352.3
protection of public 614.842
signals 654.7
[1]Alaska history 979.8
" purchase U. S. history 973.81
travel 917.98
[1]Albania, Asia, ancient history 939.56
[1] Turkey modern history 949.6
travels 914.96
[1]Albany city history 974.743
[1] Co., N. Y., history 974.742
Albert I. German history 943.026
II. 943.028
N'yanza travels 916.76
[1]Alberta, Canada history 971.23
Alberti, L. B. Italian essays 854.21
Albertypes 774
Alberus, Erasmus, German poetry 831.43
Albigenses persecutions 272.3
sect 284.4

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Albigenses secular history 944.023
Albinism animals 591.157
dermatology 616.55
Albuminoids physiology 612.398
Alchemy 540.1
Alciphron Greek letters 886.2
Alcohol hygiene 613.81
narcotic poisons 615.964
stimulants 615.711
Alcoholic liquors, manufacture 663
temperance 178
Alcoholism diseases 616.861
Alcohols organic chemistry 547.3
Alcoran Mohammedanism 297
Alcott, A. B. moral government 371.58
L. M. American fiction 813.41
Alcoves lib. econ. 022.4
Alcyonaria zoölogy 593.62
Aldehydes organic chemistry 547.5
Aldermen local government 352.0
Aldine editions rare printing 094
Aldrich, T. B. American fiction 813.44
Aleardi, A. Italian poetry 851.81
Alembert, J. le R. d' French essays 844.53
[1]Aleppo, Asia, Turkish history 956.8
Ales manufacture 663.3
[1]Aleutian islands history 979.8
Alexander II. Russian " 947.08
Alexandria, Egypt ancient history 932
modern " 962.1
travels 916.21
Alexandrian library 027.032
philosophy 186.4
Alfieri, V. Italian drama 852.64
Alfonso X. Spanish literature 868.11
XI. " " 868.14
XII. Spanish history 946.08
Alfred the Great, Ang. Sax. lit. 829.7
Algæ 589.3
Algarotti, F. Italian poetry 851.58
Algebra 512
higher 512.8
Algebraical logic 164
[1]Algeria, Africa, history 965
[1]Algerine war 965
U. S. history 973.53
Algiers, Africa history 965
travels 916.5
Alhambra architecture 723
history 946.8
Alien laws 341.5
Aliens international law 341.5
owners of land, pol. econ. 333.4
naturalization 325.1
Alighieri, Dante Italian poetry 851.15
Alimentary canal human anat. 611.3
Alimentary canal physiology 612.3
Alimentation, forced hygiene 613.23
Alimony law 347.6
Alismaceæ botany 584.72
Alkalies chemical technology 661.3
chemistry 546.31
Alkaline earths chemistry 546.4
poisons therapeutics 615.922
waters econ. geology 553.71
Alkaloid drugs materia medica 615.336
Alkoran Mohammedanism 297
All-fools' day customs 394
All-Hallows' eve customs 394
All-Saints, feast of, Anglican festival 264.031
All Souls " " " " 264.031
[1]Alleghany Co., N. Y., history 974.784
mountains travels 917.5
Allegiance English private law 347.1
international law 341.5
naturalization 325.1
[3]**Allegories English literature 828**
religious 244
Allegretto orchestral music 785.1
Allegro orchestral music 785.1
Alliance, Evangelical 206
Holy treaties 341.2
Alliances international law 341.2
[1]Allier, France, history 944.57
Alligation arithmetic 511.8
Alligators 598.14
Alliterative poems, English poetry 821.1
Allodium land ownership 333.3
law 347.2
Allopathy medicine 615.5
Allotropism chemistry 541.7
Allotment system 333.5
Alloys 671
Alluvium geology 551.35
Almanacs, general 529.5
nautical 528
statistical 310
Almqvist, K: J. L. Swedish poetry 839.7166
Alms ethics 177.7
Almshouses 362.5
architecture 725.55
pauperism 339
Aloes poisons 615.93
Alpes Maritimes, France history 944.94
Alphabet elementary education 372.4
English orthography 421.1
[3] other languages
Alphabetico-classed catalogs 019
[3]**Alphabets philology 411**
ornamental design 745
Alphen, H. van Dutch poetry 839.3147
Alpine plants botany 581.9494

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Alpine travels 914.94
[1]Alps history 949.4
[1]Alsace-Lorraine, Germany history 943.44
Alsineæ botany 583.154
Alsop, George American satire 817.12
Richard " poetry 811.25
Altar cloths sacred ornaments 247.7
Altars architectural accessories 729.91
ecclesiology 246.6
Alt-azimuth instruments 522.42
Alternate generation zoölogy 591.163
Altitude imponderable remedies 615.835
Altruism ethics 171.8
Aluminium inorganic chemistry 546.66
metallurgy 669.7
Alumni biography 378
Alwato universal language 408.9
Amadeus Spanish history 946.08
Amadis de Gaula Spanish fiction 863.22
Amalgamation, metallurgy 669.2
Amalgams manufactures 671
Amarantaceæ botany 583.913
Amaryllideæ " 584.25
Amateur manuals mech. trades 680
theatricals amusements 793
ethics 175.2
Amaurosis diseases of eye 617.73
Amazon river, travel 918.1
Amazons customs 396.9
Ambassadors international law 341.7
political science 327
Amber geology 553.29
jewelry 391.7
mineralogy 549.8
Ambra, F. d' Italian drama 852.35
Ambrosia antiquities 913.38
mythology 292
Ambrotype 772
Ambulances 614.881
for contagious diseases 614.882
Amendments U. S. constitution 342.731
[1]America, Central history 972.8
travel 917.28
discovery of 973.1
history 970
North botany 581.97
geology 557
history 970
statistics 317
travel 917
other topics see table 1.
Norwegian history 948.02
[4] Russian, history 979.8
travels 917.98
[4] **South, history 980**
travel 918
American and Eng. private law 347
American Antiquarian society 913.7
antiquities 913.7
art galleries 708.1
bibliography 015.7
biographical dict. 920.07
colleges 378.7
colonies history 973.2
constitution 342.731
constitutional history 342.739
cyclopedias 031
Independence, U. S. hist. 973.313
Indians 970.1
languages No. Am. 497
So. Am. 498
literature 810
painting 759.1
party 329.5
periodicals 051
philosophers biography 921.1
philosophy 191
poetry 811
poets' lives 928.11
political parties 329
P. E. church 283.7
Rebellion history 973.7
revolution 973.3
slavery 326
statutes law 345
[1]Americana history 970
Americanisms 427.9
Ames, Fisher, American oratory 815.22
[4]Amharic language 492.8
Amherst College 378.744
Amic acids organic chemistry 547.8
Amicis, Edmondo de Ital. misc. 858.82
Amids organic chemistry 547.8
Amiens, Peace of treaties 341.24
Amines organic chemistry 547.8
Ammergau passion play theatre 792
Ammirato, Scipione Italian essays 854.46
Ammonia chemical technology 661.3
salts chem. tech. 661.5
stimulants 615.711
Ammoniums organic chemistry 547.8
Ammunition military engineering 623.4
Amnesty 341.3
Amnion pregnancy 618.37
Amory, T. English humor 827.62
Amos, Book of, Bible 224.8
Ampelideæ botany 583.279
Amphibians 597.6
Amphictyonic council, Grecian history 938
Amphitheatre antiquities 913.376
architecture 722.7
Amputation surgery 617.94

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

[1]**Amsterdam** **history** **949.2**
travels 914.92
Amusement or play hygiene 613.74
Amusements **790**
ethics **175**
of laboring classes 331.84
Sunday 263.6
[5]**Ana** **English literature** **828**
Anabaptists sects 284.3
Anacardiaceæ botany 583.292
Anacreon Greek poetry 884.3
Anæsthesia diseases 616.856
Anæsthetics therapeutics 615.781
[5]**Anagrams** **English literature** **828**
pseudonyms **014**
Analgesics therapeutics 615.783
Analogous projections descri. geom. 515.2
Analogy **comparative anatomy** **591.4**
English language 422.1
[3] other languages
logic 169
plants **581.4**
theology 219
Analysis air chemistry 543.7
arithmetic 511.5
blowpipe chemistry 544.3
botanical **581**
chemical **543**
combinatory algebra 512.5
diophantine algebra 512.23
grammar English 425.3
[3] other languages
logic **160**
microscopical **578**
milk, adulterations 614.321
mineralogy 549.1
qualitative, chem. **544**
quantitative, chem. **545**
soil hygiene 614.771
sounds acoustics 534.4
spectrum astronomy 522.67
" chemistry 544.6
" optics 535.84
water biol. hygiene 613.34
chemistry 543.3
micros. hygiene 613.33
Analysts, public adulterations 614.3
Analytical chemistry **543**
geometry **516**
trigonometry 514.5
[1]Anam, Asia history 959.8
travel 915.98
Anarchists **socialism** **335**
Anastatic printing 655
Anatomy, art 743
comparative animals **591.4**
Anatomy **comparative plants** **581.4**
descriptive animals **591.7**
plants **581.7**
human **611**
laws public health 614.22
pathological 616.078
regional **611.9**
vivisection ethics 179.4
Anaxagoras Greek philosophers 182.8
Anaximander, " " 182.1
Anaximenes, " " 182.1
Ancelot, J. A. F. P. French drama 842.74
Ancestry evolution 575.1
genealogy **929.1**
mental science 136.3
spiritual heredity 233.3
traductionism 129.2
Anchor ice occurrence in nature 551.31
Anchors plumbing 696.7
Ancient architecture **722**
countries description **913.3**
customs **913.3**
customs and costume **390**
geography desc. **911.3**
history **930**
law **349.3**
maps **912.3**
music 781.8
philosophers' lives 921.9
philosophies **180**
sculpture 732
therapeutics 615.89
Ancients, council of French legislature 328.44
French revolution 944.045
[1]Andalusia, Spain history 946.8
travel 914.68
Andante orchestral music 785.1
Andersen, H. C. Danish fiction 839.8364
Andersonville prison U. S. history 973.7711
Andes, description 918
Andesite lithology 552.26
Andocides Greek oratory 885.1
Andorra 946.7
Andreä, J. V. German poetry 831.47
Andreini, G. Italian drama 852.53
Andrieux, F. G. J. S., French drama 842.65
Andronicus, Livius Latin drama 872.1
Anecdotes legal 340.9
[5] **miscel. Eng. lit.** **828**
personal, see biography
religious 244
on spec. topics, see subject.
Anemometer meteorology 551.51
Aneroid barometer physics 533.4
Aneurism pulmonary disease 616.247

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Aneurism surgery 617.41
Angels 235
Angevin architecture Romanesque 723.44
Angina pectoris diseases 616.12
Angiocarpæ botany 589.16
Angiulieri, C. Italian satire 857.13
Angle, facial craniology 573.7
visual physiological optics 535.7
Angles, measurement of astron. 526.93
crystallography 548.7
[1] Anglesey history 942.91
Anglican biography 922.3
brotherhoods 271.8
chant music 783.5
church 283
creed 238.3
missions 266.3
ordination 262.17
persecutions by Eng. hist. 942.055
" by relig. " 272.7
" of Eng. " 942.054
" of relig. " 272.6
relig. hist. of Eng. 274.2
ritual 264.03
sisterhoods 271.98
Anglicisms English language 427
Angling 799
Anglo-Catholics 283
Anglo-Saxon history 942.01
homilies 829.5
[3] **language 429**
literature 829
poetry 829.1
Anglomania customs 390
[1] Angola, Africa history 967.3
[1] Angora, Asia Turkish history 956.3
Angoulême, House of Fr. history 944.028
Angular perspective geometry 515.61
drawing 742
[1] Anhalt, Germany history 943.19
Anharmonics, geometry 513.56
analytical geometry 516.56
Anhydrides organic chemistry 547.7
Anhydrous silicates mineralogy 549.61
sulphates mineralogy 549.75
Aniline, colors, chemical technology 667.2
Animal chemistry 547
diseases commun. to man 614.93
electricity 134
food hygiene 613.28
forms, decoration in relief 729.52
painted decoration 729.42
heat physiological zoölogy 591.11
physiology 612.5
hygiene public health 614.9
intelligence zoölogy 591.5
Animal irritant poisons, therapeutics 615.94
kingdom 590
life, painless extinction of 614.971
magnetism 134
oils chemical technology 665.2
parasites diseases 616.961
plagues veterinary med. 619
psychology, zoölogy 591.51
substances, chemical analysis 543.9
trades air pollution 614.74
worship, non-Christian religions 290
Animalculæ 593
Animals agents of geol. work 551.95
and plants differences 577.5
care of, animal hygiene 614.94
cruelty to ethics 179.3
dead air pollution 614.763
domestic 636
infect. diseases 614.91
evolution 575
feeding of animal hygiene 614.95
geographical distribution 591.9
insurance 368.5
locomotion of 591.47
menageries 590.7
mind in 591.51
palæontology 560
remains of, early stone age 571.13
" " late stone age 571.23
training of domestic 636
transportation of hygiene 614.96
Animism metaphysics 128
[1] Anjou, France history 944.18
Anne, queen architecture 724.5
English history 942.069
Annealing manufactures 671
molecular physics 539.54
Annelida worms 595.1
Annexation intern. law 341
Annihilation doctrines 237.3
natural theology 218
Anniversaries of invention of printing 655.12
Annuals, statistical 310
special, see subject.
Annuities insurance 368.31
mathematics 519.5
public finance 336.35
Annunciation, feast of Anglican ch. 264.031
Annunciators signals 654.7
Anodynes therapeutics 615.78
Anointing sacraments 265
Anomala botany 583.297
Anomali " 583.98
Anomodontia reptiles 598.17

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Anonaceæ botany 583.115
Anonyms bibliography 014
[2]Ansayrii history 955
Anselm medieval philosophy 189.4
Anselm, H. German fiction 833.53
Anslo, Reyer Dutch poetry 839.3135
Ant insects 595.79
Antacids aids to digestion 615.7343
Antagonism of medicines, therapeutics 615.52
Antarctic current ocean currents 551.47
explorations, travels 919.9
ocean oceans 551.46
regions history 999
Ante-reformation religious history 270.5
Anthelmintic drugs therapeutics 615.733
Anthems music 783.4
public worship 264.2
religious poetry 245
[5]Anthologies Eng. literature 820.8
Anthracene organic chemistry 547.28
Anthracite econ. geology 553.25
fuel 644
metallurgy 669.8
Anthrax public health 614.561
Anthropoid apes mammals 599.8
Anthropology mind and body 130
nat. hist. of man 573
relig. doct. of man 233
Anthropometry 573.6
Anthropomorphism metaph. 125
Anthropophagy cannibalism 399
Anti-burghers presbyterians 285.6
Anti-Christ 235
Anticlinal strata geology 551.86
Anti-corn law league free trade 337.2
Antidotes materia medica 615.9
Antifebrin therapeutics 615.75
Anti-federal party 329.2
[1]**Antilles history 972.9**
travel 917.29
Anti-Masonry 366.1
Antimonates mineralogy 549.72
Antimonides mineralogy 549.3
Antimony inorganic chemistry 546.86
ores 553.47
Antinomianism 273.6
Antipatharia zoölogy 593.64
Antiperiodics therapeutics 615.75
Antiphonal choral service music 783.24
readings pub. worship 264.4
Antipyretics therapeutics 615.75
Antipyrin " 615.75
Antiquarian societies 913
Antiquarians' lives 923.9
Antiquities biblical 220.93
classical 913.38
Antiquities countries 913
customs 390
Jewish antiq. 913.33
history 933
religion 296
legal 340.3
prehistoric archæology 571
see also special subjects.
Antiquity of man 573.3
Anti-rust processes building 691.7
Antiseptics in midwifery 618 89
public health 614.482
therapeutics 615.778
Anti-slavery documents 326.4
periodicals 326.5
societies 326.6
U. S. history 973.7111
Antisthenes Greek philosophers 183.4
Antistrophe English prosody 426.7
Greek prosody 486.7
[3] other languages
Anti-Trinitarians heresies 273.4
Unitarians 288
Anti-vaccination public health 614.474
Antonides Dutch poetry 839.3137
[1]Antrim Irish history 941.61
Ants insects 595.79
[1]Antwerp history 949.3
travels 914.93
Anura fishes 597.8
Anus anatomy 611.35
diseases of 616.35
[3]Aorist Greek etymology 482.8
Greek syntax 485.8
Aorta anatomy 611.13
Apartment and office buildings 725.22
houses architecture 728.2
domestic economy 640
Apatite economic geology 553.64
fertilizers 631
mineralogy 549.72
Apes 599.8
Apetalæ botany 583.9
Aphasia diseases 616.855
mental derangements 132.8
Aphelion astronomy 521.3
Aphonia diseases 616.22
[5]**Aphorisms English literature 828**
folk-lore 398.9
Apiary bees 638
Apocalypse 228
Apocarpeæ botany 584.7
Apocrypha 229
Apocryphal gospels Bible 229.8
Apocynaceæ botany 583.72
Apoda zoölogy 593.98

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Apogee moon 523.33
tides 525.63
Apollo Belvedere sculpture 733
Apollo-worship 292
Apollonius Rhodius Greek poetry 883.3
Apologetics **239**
Apomorphine emetics 615.731
Apoplexy diseases 616.81
Apostasy heresies **273**
Apostles, acts of 226.6
Apostles' creed 238.1
lives, scriptural biography 225.92
Apostolic age apologetics **239.1**
canons apocrypha 229.9
Catholic, sects 289.5
church **281.1**
persecutions 272.1
epistles 229.9
fathers 281.1
period religious history 270.1
succession 262.11
Apostolical constitutions 281.1
[5]**Apothegms English literature** **828**
folk-lore 398.9
Apparatus manufacture 681
practical chemistry **542.2**
see special subject
Apparent motion earth 525.38
sun 523.73
time 529.1
Apparitions 133.1
Appellate proceedings law 347.9
Appetites mental faculties 158
temperance **178**
Appian way Roman antiquities 913.37
Apple culture 634
Applied chemistry chem. tech. **660**
mechanics mech. eng. **621**
Appliqué work 746
Appointment of civil service officers 351.1
teachers education 371.14
Apportionment representation **324**
taxation **336.2**
Apprentices, duties of ethics 174.8
Apprenticeship building trade 690.7
polit. econ. 331.86
Appropriation bills U. S. finance 336.73
Approximations algebra 512.22
Apulia, Italy ancient history 937.7
modern history 945.75
travels 914.575
Aquaria 590.7
Aquatic rights, law 347.2
Aquatint engraving 766
Aqueducts canals 626.2
Roman antiquities 913.376
Aqueducts **waterworks** **628.14**
Aqueous erosion geology **551.35**
rocks " **552.5**
Aquinas medieval philosophy 189.4
Aquivascular respiration zoölogy 591.123
Arabesque decoration design 745
Arabesques ornaments 747
piano music 786.42
Arabia ancient history 939.47
[1] **modern history** **953**
travels **915.3**
Arabia Petræa ancient history 939.48
modern " 953.1
travel 915.31
Arabic architecture 723.3
[4] **language** **492.7**
literature **892.7**
numerals arithmetic 511.2
philosophy 189.3
Arabs in Spain Spanish history 946.02
Arachnida parasitica ectozoa 616.9685
zoölogy 595.4
[1] Aragon, Spain history 946.5
Araliaceæ botany 583.491
[4]**Aramaic language** **492.1**
Aratus Greek poetry 881.2
Arbitrage stock exchange 332.6
Arbitrary power absolute monarchy 321.6
Arbitration and award law 347.4
capital and labor 331.1
international ethics 172.4
law 341.6
Arblay, F. (Burney) d' English fict. 823.66
Arboriculture 715
forestry 634.9
Arbors landscape gard. 717
Arbuthnot, J. English humor 827.54
Arc, Joan of French history 944.026
Arcades architectural design 729.33
walls 721.26
Arcadia Greek anc. history 938.8
Arcani disciplina primitive church 281.1
Arcesilaus Greek philosophy 186.2
Archæan age geology 551.71
Archæology anc. description, etc. 913
Biblical 220.93
prehistoric **571**
[3]**Archaisms English language** **427**
[1]Archangel, Russia history 947.2
Archbishops ecclesiastical polity 262.12
lives **Anglican** **922.3**
Roman Catholic **922.2**
Arched constructions arch. **721.4**
Archegony biology 576.1
physiological zoölogy 591.161
Archery 796

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Arches architectural design 729.33
arch. constr. **721.4**
engineering 624.6
triumphal, Rom. antiq. 913.37
Archilochus Greek satire 887.1
Archimedes screw physics 532.8
[1]**Archipelago, East Indian** **991**
Greek, ancient hist. **939.1**
[1] **modern hist.** **949.9**
Architectonics, architecture 720.1
Architects, liability of building 692.9
Architects' lives 927.2
Architectural accessories **729.9**
construction **721**
decoration **729**
design **729**
drawing 744
Architecture **720**
acoustics 534.84
East Indian 722.4
Gothic **723.5**
military **623.1**
castles 728.81
modern **724**
naval building 699
naval engineering **623.8**
Norman **723**
plans **692**
warships **623.8**
Architraves arch. construction 721.86
Archives, see history
" manuscripts
of special topics see topic
Archons Greek history 938
Arctic currents 551.47
explorations travels 919.8
explorers' lives 923.9
ocean 551.46
[1] regions, history 998
[1] Ardèche, France history 944.82
[1] Ardennes, France history 944.31
Ardent spirits manufactures **663**
temperance **178**
Ardigo, I. Italian essays 854.85
Area, occupiable, proportion of, ground hygiene 614.784
Areas geometry 513.18
surveying 526.97
Areolar tissue anatomy 611.76
Areometer specific gravity 532.4
Areopagus Grecian antiquities 913.385
Aretino, Pietro Italian drama 852.34
Arezzo, G. d' " poetry 851.12
Argand lamp chemical technology 665.6
Argensola, B. L. Spanish poetry 861.34
L. " " 861.34
Argentine Republic administration 354.82
botany 581.982
finance 336.82
[2] geology 558.2
history 982
maps 912.82
schools, public 379.82
statistics 318.2
travel 918.2
treaties 341.282
other topics see table 1.
Argillite geology 552.44
Argolis Greek ancient history 938.8
Argonauts Greek mythology 292
Argot French language 447.09
[3] other languages
Argument law 347.92
logic 168
from design apologetics 239
[1]Argyll, Scotland history 941.38
Aria vocal music 784.2
Ariana, Asia ancient history 939.65
Arianism heresies 273.4
Arici, Cesare Italian poetry 851.67
[1]Ariége, France history 944.88
Ariosto, Lodovico Italian poetry 851.32
Aristippus Greek philosophers 183.5
Aristocracy polit. science 321.5
Aristolochiaceæ botany 583.924
Aristophanes, Greek drama 882.4
Aristotelian philosophy **185**
Aristotle Greek literature 888.5
philosophy 185.1
Arithmetic **511**
elementary education 372.7
political statistics **310**
Arithmetical progression algebra 512.6
arithmetic 511.6
Arithmometer, math. instruments 510.8
[1] Arizona, U. S. history 979.1
[1] Arkansas, " " 976.7
Arm anatomy 611.97
Armada, Spanish English history 942.055
Spanish " 946.04
[1] Armagh, Ireland history 941.66
Armamentaria, surgery 617.91
Armaments ordnance 623.4
Armed neutrality international law 341.3
Armenia ancient history 939.55
Armenian architecture 723.2
church 281.6
[4] **language** **491.54**
literature **891.54**
Armies Amer. civil war 973.74
military engineering **623**
military science **355**

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Armies war customs 399
Arminianism continental prot. sects 284.9
Methodism 287
Armistice international law 341.3
Armor war costumes 399
Armored vessels military engin. 623.9
shipbuilding 699
[4] **Armorican language 491.68**
Armories architecture 725.18
military engineering 623.4
Arms artificial 617.57
coats of heraldry 929.8
gun-making 683
military engineering 623.4
" **science 355**
war customs 399
Army British 354.426
foreign countries 354
lists 355
military science 355
of Cumberland 973.7416
officials, lives 923.5
regulations 355
United States 353.6
worm agriculture 632
zoölogy 591.69
Arnaut, Daniel Provençal poetry 849.127
Arndt, E. M., German poetry 831.71
Arnim, L.; A. von German fiction 833.66
Arnold, M. English essays 824.85
Arnulf German history 943.021
Aroideæ botany 584.64
Arondissement French loc. gov. 352.0445
Arrangement of words Eng. syntax 425.3
[3] other languages
Arrearages law 347.7
Arrebo, Anders Danish poetry 839.8131
Arrest civil trials 347.9
criminal law 343
Arrom, C. B. de F. C., Spanish fiction 863.53
Arrow head inscriptions 492.1917
heads, stone prehist. arch. 571.15
war implements 399
Arrows archery 796
Arsacidæ history 935.6
Arsenals architecture 725.18
military engineering 623.4
Arsenates mineralogy 549.72
Arsenic drugs 615.219
inorganic chemistry 546.19
medical jurisprudence 340.6
metallic poisons 615.926
ores 553.47
Arsenides inorganic chemistry 546.19
mineralogy 549.3
Arson criminal law 343
Art anatomy, drawing 743
biography 927
Christian, ecclesiology 246
decorative furniture 749
education 707
embroidery 746
fine 700
galleries 708
architecture 727.7
history 709
industrial, useful arts 600
interior decoration 747
museums internal affairs 351.853
needlework 746
religious 246
rudiments, prehistoric 571.7
sacred furniture 247
schools 707
studios architecture 727.7
useful 600
woman in 396.7
Arterial blood, physiology 612.113
Arteries anatomy 611.13
diseases 616.13
Artesian wells, sanit. engineering 628.11
Arthropoda zoölogy 595.2
Arthrostraca " 595.37
Arthur, C. A., presidency of 973.84
Arthurian romances 398.2
Articles English syntax 425.6
Greek syntax 485.6
[3] other languages
of confederation, U. S. const. hist. 342.73
Thirty-nine Anglican creed 238.3
Articulates paleontology 565
zoölogy 595
Articulations anatomy 611.72
Artificial butter, chemical technology 664.3
eyes 617.79
flowers ornamental design 745
fuel chemical technology 662.8
horizons astronomy 522.57
ice manufacture 621.5
light perspective 515.63
limbs 617.5
mineral waters, chem. tech. 663.6
stone, building materials 691.3
chemical technology 666.8
piers and columns 721.33
walls 721.23
teeth dentistry 617.69
Artillery army dep't 358
ordnance, mil. eng. 623.4
Artisans' lives 926
Artists' lives 927

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

[1] **Artois, France history** 944.27
Artotype photography 774
Arts and trades 600
fine 700
biography of 927
graphic fine arts 700
useful 600
biography of 926
Arundel marbles Greek inscrip. 481.7
Aryan languages 491
literatures 891
races ethnology 572.891
Asafetida therapeutics 615.789
Asbestos econ. geol. 553.67
roofing 695.7
Ascension of Christ Christology 232.5
right theoretical astronomy 521.27
Ascensions, balloon aeronautics 533.6
Asceticism 273.2
personal religion 248
Ascidia zoölogy 594.9
Asclepiadeæ botany 583.73
Ascolichenes botany 589.15
Ascomycetes " 589.23
[1] Ashango land, history 967.2
travel 916.72
[1] Ashantee history 966.7
travel 916.67
Ashburton treaty inter. law 341.2
Ashes fertilizers 631
volcanic, lithology 552.22
Asia antiquities 913.5
botany 581.95
geology 555
[1] **history** 950
statistics 315
travels 915
Asia Minor, Eastern anc. hist. 939.3
Western anc. hist. 939.2
[1] **history, modern** 956
travels 915.6
Asiatic cholera diseases 616.932
languages 491–495
eastern 495
societies 490.6
Asinari, Federigo Italian drama 852.44
Asphalt economic geol. 553.27
pavement 625.8
roofing 695.6
Asphyxia pathology 616.206
surgery 617.18
Aspirates English language 421.2
Greek language 481.2
[3] other languages
Aspiration, pneumatic therapeutics 615.815
Ass domestic animals 636.1
Ass zoölogy 599.7
[1] Assam, India, history 954.1
Assassination criminal law 343
Assassins lives 923.4
Persian history 955
Assault and battery law 343
Assaults military engineering 623.2
Assaying 669.9
Assembly, legislative 328
Assent logic 163
Assessment taxes 336.29
Assignats French finance 336.44
" revolution 944.04
Assignments law 347.7
Assimilation of food animals 591.133
man 612.39
plants 581.133
[1] Assiniboia, Canada history 971.25
Assize, courts of law 347.99
Associated press Amer. journalism 071
Association mental faculties 153.2
public order 351.752
Associationalism philosophy 149.4
Associations 360
building 332.32
business coöpera. 334
charitable 361
educational 370.6
guilds 338.6
labor 331.88
musical 780.6
relig. Y. M. C., etc. 267
for special object see topic
Assurance 368
Assyria ancient history 935.2
antiquities 913.352
architecture 722.5
[4] **Assyrian language** 492.19
Astacidae lobsters 595.36
Asterales botany 583.53
Asteroidea zoölogy 593.92
Asteroids astronomy 523.44
Asteropherus, M. O., Swedish drama 839.7222
Asthma diseases 616.23
Astigmatism eye diseases 617.75
Astringents external irritants 615.772
Astrolabe astronomy 522.41
Astrology 133.5
astronomy 520.1
Astronomers' lives 925.2
Astronomic almanacs chronology 529.5
determinations, geodesy 526.6
instruments 522
maps 524
observations 522.19
observations 524

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Astronomic physics 521
Astronomy 520
descriptive 523
in relation to geodesy 526.6
physical 521
practical 522
spherical 522.7
theoretical 521
Astrophytidae star fishes 593.94
[1]Asturias, Spain history 946.1
Asylum, right of legal antiquities 340.3
Asylums **architecture** 725.5
hygiene 613.56
inebriate arch. 725.65
temperance 178.6
sociology 362
[1]Athabasca, Canada history 971.22
Athanasian creed 238.1
Atheism **apologetics** 239
natural theol. 211
Atheists' lives 922.9
Athenæum libraries 027.2
Athenian supremacy, Grecian history 938.04
Athens ancient history 938.5
[1] modern history 949.5
travel 914.95
Athletic sports 796
hygiene 613.72
school hygiene 371.74
training hygiene 613.73
Atlantic ocean, physical geography 551.46
travel 910.4
telegraph sociology 384
useful arts 654.5
Atlantis antiquities 913.39
mythology 292
original home of man 572.4
Atlases, maps, etc. 912
celestial astr. 524
school furniture 371.63
see also special topics
Atmosphere erosion 551.37
geological agent 551.93
ground pub. health 614.773
hight of astr. 523.58
meteorology 551.5
moon 523.35
pneumatics 533.3
Atmospheric currents 551.51
electricity 537.4
engines pneumatics 533.8
pressure " 533.4
railways 625.5
vibrations sound 534.1
Atolls physical geology 551.96
Atomic theory 541.2
Atomic weights 541.2
Atomistic philosophy 182.6
Atoms 541.2
Atonement christology 232.3
Atrophies skin diseases 616.54
Atropine materia medica 615.336
Attack military science 623.2
Attendance school 371.52
Atterbom, P. D. A., Swedish poetry 839.7165
Attica, Greek ancient history 938.5
Attitude, constrained hygiene 613.65
Attorneys **law** 340
lives 923.4
Attraction, capillary liquids 532.6
chemical affinity 541.3
gravity 531.5
magnetism 538
of mountains, geodesy 526.14
sun and earth 523.33
Attributes of God 231.4
Aubanel, J. M. Provençal poetry 849.145
[1]Aube, France history 944.33
Aubigné, T. A. d' French satire 847.34
Auburn prison system prisons 365
Auction catalogs bibliography 018.3
Auctions book, library econ. 025.2
law of 347.7
[1]Aude, France, history 944.87
Audiphone acoustics 534.7
Auditory canal ear diseases 617.83
nerve anatomy 611.85
physiology 612.85
Auerbach, B. German fiction 833.81
Auersperg, A. A., " poetry 831.77
Augier, G. V. É. French drama 842.83
[3]Augment Greek etymology 482.8
Augsburg confession, Lutheranism 284.1
Reformation 270.6
Augustine medieval philosophy 189.2
Augustinian monks 271.4
Augustinism doctrines 230.14
Auricle ear diseases 617.82
Auricular confession ordinances 265.6
Aurora borealis 523.59
Auscultation pathology 616.074
Austen, J. English fiction 823.74
[1]Austerlitz European history 940.8
French " 944.05
[1]Austral Islands history 996.2
[1]**Australasia** " 993
Australia **administration** 354.94
botany 581.994
finance 336.94
geology 559.4
history 994
maps 912.94

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Australia **schools, public** **379.94**
statistics **319.4**
travel **919.4**
other topics see table 1
Austria **administration** **354.43**
antiquities **913.436**
architecture **720.9436**
botany **581.9436**
colleges 378.436
constitutional law **342.43**
education **370.9436**
finance **336.436**
geology **554.36**
history **943.6**
laws **349.43**
maps **912.436**
religious history **274.36**
schools, public **379.436**
statistics **314.36**
travel **914.36**
treaties **341.2436**
zoölogy **591.9436**
other topics see table 1
Austrian architecture Romanesque 723.43
ascendency in Italy 945.07
Netherlands 949.202
Authenticity of Scripture Bible 220.1
Authority church and ministerial 262.8
ethics 171.1
Author catalogs, bibliography **018**
Authors and publishers 655.52
anon. bibliography **014**
bibliography of special 012
lives **928**
rights of copyright **655.6**
" " law 347.7
Authorship literary methods 029
Auto-da-fe Spanish history 946.04
" inquisition 272.2
Autobiography **920**
Autocracy form of state 321.6
Autographs book rarities 091
Automata, mechanical 791
metaphysics 127
Automatic fire extinguishers 614.844
Autotypes 773
Autumnal catarrh diseases 616.202
[1] Auvergne, France history 944.59
[1] Ava, Burmah, history 959.2
Avalanches physical geology 551.31
Average maritime law 347.7
probabilities 519.6
values, alligation 511.8
Averroes medieval philosophy 189.3
[4] **Avesta, Zend, language** **491.52**
literature **891.52**
Avesta, Zend, religion 295
[1] Aveyron, France history 944.74
Avicenna medieval philosophy 189.3
Avignon, council of, religious history 270.5
Avilla, J. de Spanish letters 866.31
Avoirdupois weights metrology 389
Axes, position of geodesy 526.16
Axle physics 531.82
[1] Ayr, Scotland history 941.42
Azeglio, M. d' Italian fiction 853.78
Azimuth constant 522.37
determinations 526.63
instrument astronomy 522.42
Azo-bodies organic chemistry 547.8
Azoic rocks stratigraphical geology 551.71
[1] Azores history 946.99
Azoxy-bodies organic chemistry 547.8
Aztec architecture 722.9
history 972.014
language 497
[1] Baalbec ancient history 939.42
Babrius, Greek poetry 881.4
Babylon ancient history 935.4
architecture 722.5
[4] **language cuneiform** **492.19**
religion 299.219
Baccalaureate sermons 252.5
colleges **378**
Bacchanalia social customs 394.1
Bacchus mythology 292
Bachelors celibacy 176.2
Back-bone anatomy 611.71
Backgammon games 795
ethics 175.5
Bäckström, P. J. E., Swedish drama 839.7266
Bacon, Francis Brit. philosophers 192.1
empiricism 144
English essays 824.3
Baconian philosophy 192.1
Bacon's rebellion Virginian history 975.5
Bacteria botany 589.95
theory of diseases 616.01
fermentation 663.1
[4] **Bactrian, Old language** **491.52**
Bactriana ancient history 939.64
Bad social customs nervous hygiene 613.87
[1] Baden, Germany history 943.46
Badges heraldry 929.8
[1] Baffin's bay travels 919.8
Bagatelle amusements 794
[1] Bagdad history 956.7
Baggesen, Jens Danish poetry 839.8156
Bagpipe 788.9
[1] Bahamas history 972.96
travel 917.296
Baïf, J. A. de French poetry 841.36

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Baïf, L. de French drama 842.32
Bail criminal law 343
Baillie, Joanna English drama 822.71
Bailments 347.4
Bait for specimens collecting 579.611
Bakers' occupation hygiene 613.64
Baking cookery 641
powder chem. techn. 664.5
adulterations 614.315
Balance machines 531.81
metrology 389
of power political science 320.1
trade commerce 382
spring watch-making 681
Balances, chemical 542.3
Balanophoreæ, botany 583.947
Balanopseæ " 583.961
Balbo, Cesare, Italian essays 854.74
Baldi, Bernardino " poetry 851.47
Baldness dermatology 616.54
Bale, J. English drama 822.23
[1] Balearic Islands history 946.7
[1] Balize history 972.82
travels 917.282
Ball playing amusements 797
school hygiene 371.74
Ballads Danish poetry 839.8112
[5] English literature 821.04
song books 398.8
Swedish poetry 839.7114
vocal music 784.3
Ballast transportation 656
Ballet amusements 792
ethics 175.2
Ballistics military engineering 623.4
Ballooning 533.6
military 623.7
Ballot **324**
Balls dancing 793
ethics 175.3
projectiles 623.4
[1] Baltic provinces, Russia history 947.4
sea travels 914.74
[1] Baltimore history 975.26
travels 917.526
[1] Baluchistan history 958.8
Balustrades architectural design 729.39
Balzac, Honoré de French fiction 843.73
Bampton lectures 239.01
Bandages therapeutics 615.813
Band irons plumbing 696.7
saws machine tools 621.93
Bandello, Matteo Italian fiction 853.32
Banditti **biography** **923.4**
law 343
[1] Banff, Scotland history 941.24
[1] Bangkok history 959.3
travel 915.93
Bangorian controversy Anglican ch. 283.42
Banishment criminal law 343.2
Banjo 787.7
Bankers' lives **923.3**
Banking **332.1**
Bank note engraving 768
notes counterfeiting 332.9
money 332.5
of England banks and banking 332.15
the U. S. " " " 332.11
Bankruptcy 347.7
Bankrupt laws 347.7
Banks administration 351.825
and banking law 347.7
architecture 725.24
co-operative co-operation 334.2
polit. econ. 332
savings banks and banking 332.2
Banners heraldry 929.9
sacred ornaments 247.9
Banquets social customs 394.1
Banting dietetics 613.24
Banville, T. F. de French poetry 841.83
Baptism of infants 265.1
sacrament 265.1
Baptismal fonts sacred furniture 247.1
regeneration salvation 234.4
Baptisms registers of 929.3
Baptistery sacred furniture 247.1
Baptists **286**
lives 922.6
persecuted by Puritans 272.8
Bar **legal** **340**
legal biography **923.4**
Bar-keeper's manuals chem. tech. 663.8
association 347.06
tending ethics 178.4
[1] Barbadoes history 972.98
travels 917.298
Barbarian invasions of Rome 937.09
Barbarians, antiquities see country.
N. American Indians **970.1**
prehistoric archæology **571**
S. American Indians **980**
war customs 399
Barbarism vs. church 261.3
Barbarisms English language 428.3
[5] other languages
[1] **Barbary States, history** **961**
Barberini vase pottery 738
Barberino, F. da Italian fiction 853.12
Barbers 391.5
Barbier, H. A. French satire 847.72
Barbour, J. English poetry 821.16

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

[5]**Barcelona** history 946.7
travel 914.67
Barclay, A. English satire 827.21
Bards and minstrels English lit. 821
French literature 841
German 831
" other literatures
Barebones parliament English hist. 942.064
Baretti, G. Italian satire 857.65
Barium inorganic chemistry 546.43
Barley agriculture 633
brewing 663.3
Barlow, Joel Am. poetry 811.23
Barnacles zoölogy 595.35
Barns architecture 728.95
[1] Barnstable Co., Mass. history 974.49
[1] Baroda, India history 954.7
Barometer pneumatics 533.4
Barometric levelling geodesy 526.37
Barometry hypsometry 551.53
meteorology 551.54
Baron, M. B. French drama 842.48
Baronage heraldry **929.7**
Baronetage " **929.7**
Barons' war English history 942.034
Barracks architecture 725.18
hygiene 613.67
Barrel-organs music 789.9
Barricade military engineering 623.3
Barrili, A. G. Italian fiction 853.82
Barrows British 571.92
Bars harbor engineering 627.1
Barter commerce 380
Barthélemy, A. M. French satire 847.71
Bartholin, Kaspar, Danish miscellany 839.883
T: " " 839.883
Bartholomew fair public customs 394.6
St., religious persecution 272.4
Bartoli, D. Italian essays 854.53
Baruch Apocrypha 229.5
[4]**Bas Breton language** **491.68**
Basalt geology 552.28
Base ball amusements 797
line geodesy 526.24
measures, adjustment of, geodesy 526.57
measuring " **526.2**
Bases theoretical chemistry 541.4
walls 721.25
Bashan ancient history 939.46
Bashfulness ethics 179.9
Basidiolichenes botany 589.11
Basidiomycetes " **589.22**
Basilica architecture 726.5
Roman antiquities 913.37
Basilican code, law 349.37
[1] Basilicata, Italy history 945.77
Basilisk legends 398.2
zoölogy 598.11
Basins catch, sewers 628.255
physical geography 551.43
Basket work, prehistoric 571.53
[1]Basle history 949.4
travel 914.94
[4]**Basque language** **491.69**
provinces history 946.6
Bas-relief sculpture 736
Bass clarinet 788.6
horn wind instruments 788.48
[1] Basses Alpes, France history 944.95
[1] Pyrénées history 944.79
Bassethorn music 788.6
Bassoon " 788.8
Bastardy law 347.6
Bastile prisons 365
French history 944.041
[1]Batavia history 992.2
travel 919.22
Bath, order of the heraldry 929.71
Bathing customs 391.6
hygiene **613.41**
Baths administration of medicine by 615.67
antiquities Greek 913.38
Roman 913.37
architecture 725.73
hygiene **613.41**
nutritive, hygiene 613.23
practical chemistry 542.4
therapeutics 615.75
Batideæ botany 583.916
Batrachia **paleontology** **567.6**
zoölogy **597.6**
Bats 599.4
Battalion drill, military tactics 356
Batteries, electric 537.86
floating naval engineering 623.9
military " 623.4
Battering ram customs of war 399
Battle paintings 756
wager of legal antiquities 340.3
Battledoor out-door sports 796
Battles, see history of special countries
land military science 355
naval naval " 359
special, American civil war 973.73
Baude, Henri French poetry 841.24
[1] **Bavaria** **history** **943.3**
travels **914.33**
Lower history 943.35
travels 914.335
[1] Rhenish, history 943.43
[1] Upper history 943.36
travels 914.336

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Bay windows architectural design 729.38
Bayeux tapestry art needlework 746
Bayonet drill military sci. 356
weapons 399
Bays, hydrography of surveying 526.99
Beaches, formation of 551.36
Beacons navigation 656
river engineering 627.9
Beaconsfield (Disraeli), Eng. fiction 823.86
Beads archaeology 571.74
devotional 247.9
Beam and scales metrology 389
Beams building 694
strengthened carpentry 694.3
Bear-baiting customs 394.2
Beards " 391.5
[1]Bearn, France, history 944.79
Beasts zoölogy 599
of burden domestic animals 636
Beatitudes Gospels 226.2
Beaumarchais French drama 842.58
Beaumont, F., Eng. " 822.35
[5] **Beauties, selections, Eng. lit.** **828**
Beauty æsthetics 701
Beauty, personal æsthetics 701
Beaux social ethics 177.6
Beaver animals 599.3
Beccaria, C. B. Italian essays 854.65
Beccuti, Francesco " satire 857.42
Bed-bugs animal parasites 616.9681
Bed wagon aid to injured 614.883
Bedding furniture 645
[1] Bedford, England history 942.56
Bedouins Arabian history 953
travel among 915.3
Beds and bedding hygiene 613.591
Bee-keeping 638
Beecher, H. W. Am. oratory 815.36
Beef cure therapeutics 615.854
food 643
production domestic animals 636.2
Beer adulterations 614.344
analysis, chem. 543.1
drinking ethics 178.1
manufacture 663.4
Bees insects 595.79
Beet sugar chemical technology 664.1
Beethoven's overtures 785.5
sonatas piano music 786.41
symphonies orches. music 785.1
Beetles insects 595.76
Beets, Nicholas Dutch essays 839.3454
Beets garden 635
Beggars charity 177.7
pauperism 339
Begging public administration 351.763
Begoniaceæ botany 583.468
Behavior **177**
Beheading punishments 343.2
Behistun inscription 492.1917
Behn, Aphra English fiction 823.44
Behring's straits travels 917.98
Being, nature of ontology 111
Beispiele German satire 837.21
Bel and the dragon Apocrypha 229.6
Belcari, F. Italian drama 852.21
[1]Belfast history 941.61
travels 914.161
[1] Belfort, France history 944.45
Belgium **administration** **354.493**
antiquities 913.493
architecture 720.9493
botany 581.9493
colleges 378.493
constitutional law **342.493**
education 370.9493
finance 336.493
geology 554.93
history 949.3
laws 349 493
maps 912.493
religious history 274.93
schools, public 379.493
statistics 314.93
travel 914.93
treaties 341.2493
zoölogy 591.9493
other topics see table 1
Belief salvation 234
theory of knowledge 121
[1]Belize history 972.82
travels 917.282
Bell, book and candle church discipline 262.9
Bell-ringing 789.5
Bell system education 371.41
Belladonna cerebro-spinal poisons 615.98
mydriatics 615.784
Bellamy, Jacob Dutch poetry 839.3146
Belleau, Remy French poetry 841.33
Belles-lettres **800**
Belligerents, rights of inter. law 341.3
Bellman, K: M. Swedish poetry 839.7151
Bells diving, hydraulic eng. 627
manufacture 673
music 789.5
signals 654.7
[1] Beloochistan history 958.8
Belt courses walls 721.25
equatorial 525.14
Belting mechan. eng. 621.85
Belts of Jupiter descriptive astron. 523.45

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Bembo, Pietro, Italian poetry 851.31
[1]Benares history 954.2
travel 915.42
Bench and bar biography 923.4
Bending machines 621.98
Bends hydraulics 532.55
Benedetti, Francesco Italian drama 852.67
Benedictine monks 271.1
Benediction 264.9
Benedictus sacred music 783.22
Benedix, J. R. German drama 832.81
Benefactors' lives 923.6
Beneficence ethics 177.7
Benefices, church clerical support 254
Benefit of clergy legal antiquities 340.3
societies insurance 368
Benevolence ethics 177.7
Benevolent institutions 361
societies 361
parish work 256
[1] Bengal, India, history 954.1
[4] **Bengali language 491.44**
[1]Benguela history 967.3
Benivieni, G. Italian poetry 851.25
Benserade, I. de French satire 847.44
Benzenes organic chemistry 547.26
Benzole light chemical technology 665.7
Beowulf Anglo Saxon poetry 829.3
Bequests law 347.6
Béranger, P. J. de French poetry 841.71
Berberideæ botany 583.117
Berbers description 916.1
Berceo, G. de Spanish poetry 861.13
Berchet, G. Italian " 851.71
[1] Bergen, Norway history 948.3
Bergh, H. van den Dutch drama 839.3252
Bergklint, Olof Swedish poetry 839.7147
Bergman, T. O. " miscellany 839.7848
Berkeley, George Brit. philosophers 192.3
idealism 141
[1] Berks, England history 942.29
[1] Berkshire Co., Mass., history 974.41
Berlier sewerage system 628.215
[1]Berlin history 943.15
travels 914.315
congress, international law 341.1
decree " " 341.3
[1] Bermudas history 972.99
Bernadotte Swedish history 948.07
Bernardines monastic orders 271.79
Bernart de Ventadorn Provençal poetry 849.125
[1]Berne history 949.4
travels 914.94
Berni, F. Italian satire 857.32
Beroalde de Verville, F. French fict. 843.36
[1] Berry, France, history 944.55
Bersezio, Vittorio Italian drama 852.81
[1] Berwick, Scotland history 941.45
Beryllium inorganic chemistry 546.45
Beskow, B. von Swedish drama 839.7262
Bessel's base measuring apparatus 526.22
deduction, L. M. Z. formula 526.47
determ. of earth's figure 526.15
functions 517.35
Bessemer process metallurgy 669.1
Best reading 028
Beton artificial stone 666.8
construction masonry 693.5
Betrothal customs 392.4
Betterments law 347.2
Bettinelli, S. Italian essays 854.61
Betting ethics 175.9
Beverages adulterations 614.34
alcoholic, hygiene 613.81
hygiene 613.3
manufacture 663
temperance 178
water hygiene 613.31
Beyle, M. H. French fiction 843.71
Bézique amusements 795
Bezoar stones medicine 615.89
Bhagavat Ghita Sanscrit literature 891.2
[1] Bhotan, India history 954.1
Bible 220
aids to study 220
and science apologetics 239.8
antiquities 220.93
Jewish 913.33
archæology 220.93
biography 220.92
canon 220.1
chapter and verse division 220.1
chronology 220.94
classes Sunday schools 268
codices 220.4
commentaries 220.7
concordances 220.2
criticism 220.6
cyclopædias 220.3
dictionaries 220.3
evidences 220.1
exegesis 220.6
geography ancient geography 911.33
biblical 220.91
hermeneutics 220.6
history biblical 220.95
Jewish history 933
in public schools education 377.1
inspiration 220.1
legends of 398.1
manuscripts 220.4

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Bible parallels Gospels 226.1
patriarchs 220.92
polyglots 220.5
revision, English 220.52
science in 220.85
societies 206
Bibliographies, general 011
Bibliographers' lives 920.1
Bibliography 010
[1] **national** 015
of special authors 012
subjects 016
Bibliomania bibliography 010
Bicycle 796
rinks architecture 725.86
Bids building 692.4
Biehl, C. D. Danish drama 839.8251
Bigamy ethics 173.2
law 343
Bignoniaceæ botany 583.84
Bigotry ethics 179.8
Bijns, Anna Dutch poetry 839.3122
Bilderdijk, Willem Dutch poetry 839.3151
Bile therapeutics 615.742
Biliary concretion surgery 617.43
secretion animals 591.148
man 612.35
Bilious fever diseases 616.36
Biliousness " 616.36
Bill of exchange banks and banking 332.45
law 347.7
rights English 342.429
Billiard saloons architecture 725.84
Billiards ethics 175.4
game 794
Billings, Josh American humor 817.46
Billon coins and coinage 332.41
Bills and notes, law 347.7
of credit, law 347.7
mortality statistics 312
sale law 347.3
Bimana mammals 599.9
Bimetallism coinage 332.42
Binary stars astronomy 523.84
vapor engines 621.44
Binding, book, library economy 025.7
mechanic trades 686
publishing 655.53
rare 095
[1]Binghamton, N. Y. history 974.776
Binocular vision physiological optics 535.7
Binomial theorem algebra 512.4
Biogenesis zoölogy 591.16
Biographical sermons 920
homiletics 252.9
Biography 920
Biography miscellaneous 920
of Indians 970.2
slaves 326.92
scriptural 220.92
universal 920.01
Biological laboratories architecture 727.5
Biology 570
Biometry life insurance 368.3
Bion Greek lyric poetry 884.7
Biondi, L. Italian drama 852.66
Bioplasm 576.2
Birch-Pfeiffer, C. German drama 832.74
Birds 598.2
cage domestic pets 636.6
eggs oölogy 598.2
flight of, migration 591.52
nests of, zoölogy 598.2
palæontology 568.2
[1]Birmingham history 942.48
travels 914.248
Birth customs 392.1
growth after physiology 612.65
marks 617.3
obstetrics 618.2
rates public health 614.11
Birthday customs 392.1
Births registers of 929.3
statistics 312
Bishops ecclesiastical polity 262.3
lives of 922
Bismuth drugs, digestive system 615.735
external agents 615.776
inorganic chemistry 546.87
Bismuthides mineralogy 549.3
Bison zoölogy 599.7
Bisticci, V. da, Italian essays 854.23
Bithynia ancient history 939.25
Bitters aids to digestion 615.7341
vegetable drugs 615.337
Bitumen economic geology 553.24
Bituminous coal 553.24
shale 553.23
Bivalves palæontology 564.1
zoölogy 594.1
Bixineæ botany 583.138
Björnson, B. Norwegian fiction 839.8367
Black-art magic 133.4
[1] Forest, Germany **history** 943.48
travel 914.348
death plague 614.49
hills, Dakota travel 917.83
hole, Calcutta 954.1
sea travels 914.77
Blacking chemical technology 667.8
Blackmail law 343
Blacksmithing 682

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Bladder anatomy 611.62
diseases 616.62
[1]Blanc, Mont travels 914.449
Blanche, A: T., Swedish drama 839.7263
Blasphemy ethics 179.5
law 343
Blast furnace 669.8
Blasting explosives 662.2
mining engineering 622.23
sub-marine 622.23
Blazonry heraldry 929.8
Bleachers' occupation hygiene 613.62
Bleaching 667.1
Bleeding therapeutics 615.811
wounds 617.14
Blicher, S. S. Danish fiction 839.8362
Blights agriculture 632
bacteria 589.95
Blind asylums 362.4
architecture 725.54
education of 371.91
printing for 655.38
schools " 371.91
Blindness 617.7
Blinds arch. construction 721.87
Blisters external irritants 615.774
Blizzards meteorology 551.55
Block books 092
Blockade war 341.3
Blocks, patent printing 655.22
Blood changes in respiration 612.23
diseases 616.15
letting therapeutics 615.811
making physiology 612.119
physiology 612.1
poisoning diseases 616.94
purification physiol. 612.23
transfusion therapeutics 615.65
vessels anatomy 611.1
Bloomer costume 391.2
Blowing engine 621.6
Blowpiping apparatus 542.5
mineralogy 549.1
qualitative analysis 544.3
Blue books lists of officers 351.2
parliamentary 328.42
United States 328.73
glass therapeutics 615.831
laws, Connecticut 345.22
prints photography 771
Blumauer, Aloys German satire 837.62
Blunders English language 428.3
[3] other languages
etiquet 395
Board of health city gov't 352.4
medicine 614
Board of health, sanitary eng. 628
reports of 614.09
of trade architecture 725.25
reports commerce 381
Boarding schools architecture 727.2
education 373.3
Boards timber 674
Boat building 699
houses architecture 725.87
racing ethics 175.7
school hygiene 371.75
Boating amusements 797
Boats, life life saving service 656
ship building 699
wharf architecture 725.34
Boccaccio, Giovanni Italian fiction 853.15
Bodel, Jean French drama 842.13
Bodenstedt, F. M. German poetry 831.84
Bode's law astronomy 523.21
Bodily strength athletics 613.72
Bodleian library 027.742
Bodmer, J. J. German poetry 831.58
Bödtcher, Ludvig Danish poetry 839.8166
Body and mind 130
care of, hygiene 613.4
school hygiene 371.73
cleanliness of, hygiene 613.4
congenital defects of, hygiene 613.91
influence of mind on, cures 615.851
measurements of 573.6
natural and spiritual, dogmatics 233.5
symmetry of, art anatomy 743
temperature of, physiology 612.56
training of, hygiene 613.73
weight of, anthropometry 573.6
Boendale, J. van Dutch miscellany 839.381
Bœotia ancient history 938.4
Boers history 968
Boethius Provençal poetry 849.111
Bog iron ore 553.3
[1]Bohemia history 943.71
travel 914.371
Bohemian brethren sects 284.3
[4] **language 491.86**
literature 891.86
Bohemianism customs 394
Bohlen lectures 239.04
Böhme medieval philosophers 189.5
Boileau-Despréaux, N. French satire 847.46
Boiler explosions steam engineering 621.18
Boilers construction 621.18
heat 536.81
insurance 368.7
Boiling heat 536.44
points chemistry 541
Boils diseases 616.52

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Bojardo, M. Italian poetry 851.22
Boker, G. H. Am. drama 812.33
[1]Bokhara history 958.6
[1]Bolivia " 984
Bollandists monastic orders 271.5
Bologna history 945.4
travels 914.54
Bolting political parties 329
Bolts machine tools 621.99
Bombardon wind instruments 788.8
[1]Bombay, India history 954.7
travel 915.47
Bombs military engineering 623.4
Bonaparte, Jos., in Spain 946.06
Bonaparte, N., French hist. consulate 944.046
empire 944.05
Bondage slavery 326
Bonded warehouses architecture 725.14
Bonds and stocks 332.6
civil trials 347.91
criminal law 343
finance 336.31
insurance of 368.8
municipal 332.5
of brick work masonry 693.21
stone " " 693.11
Bone boiling air pollution 614.742
caves prehistoric archæology 571.81
implements, archæology 571.52
Bones descriptive anatomy 591.79
diseases of 616.71
human anatomy 611.71
musical instruments 789.4
paleontology 566
physiology 612.75
skeleton of animal 591.49
Bonghi, R. Italian essays 854.82
Bonn conference religious history 284.8
Bonnets costume 391.4
toilet 646
Book auction catalogs author 018.3
classed 017.3
dictionary 019.3
auctions 655.56
binding library 025.7
rare 095
trade 686
catalogs, author 018
classed 017
dictionary 019
publishers' bibliog. 015
subject 017
clubs self-culture 374.2
collecting 025.2
illustration inserted plates 096
typography 655.32
Book-keeping, accounts 657
library 025.1
making typography 655
ownership rarities 097
plates 097
rarities 090
trade typography 655.5
history 655.4
worm library economy 025.8
Book of Common Prayer, Episco. 264.03
Books, bibliography 010
classification of lib. econ. 025.4
commonplace " " 029.4
condemned to be burnt 098
enemies of library economy 025.4
guides to selection of, lib. econ. 028
library economy 020
lists of best library economy 028.3
of prints 769
preservation of, library econ. 025.9
privately printed 094
prohibited 098
reading and aids 028
restricted library economy 024.6
sizes of " " 025.3
tariff on " " 025.1
Booksellers' catalogs, author 018.4
classed 017.4
dictionary 019.4
lives biography 920.4
Bookselling publishing 655.5
Boomerang customs of war 399
Boot-making 685
Boots, tight hygiene 613.484
Booty law 341.3
Boragineæ botany 583.77
Borates mineralogy 549.73
Borch, Ole Danish miscellany 839.883
[1]Bordeaux history 944.71
travels 914.471
Border ballads, Scottish Eng. poet. 821
ruffians, Kansas history 978.1
U. S. history 973.66
Bording, Anders Danish poetry 839.8132
Bores social ethics 177
Borghini, Vincenzo Italian essays 854.43
Boring mining engineering 622.24
Börjesson, Johan Swedish drama 839.7261
Börk, Isak " " 839.723
Born, B. de Provençal poetry 849.126
Borneill, G. de " " 849.128
[1]Borneo history 991.1
travel 919.11
Bornier, H. de, French drama 842.85
Boron inorganic chemistry 546.27
Borough Eng. local gov. 352.0422

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

[1] Bosnia history 943.95
Bosphorus travels 914.96
Bosses geology 551.88
[1] Boston, Mass. history 974.46
massacre U. S. history 973.3113
port bill " " 973.3116
schools, public 379.7446
statistics 317.446
tea party U. S. history 973.3115
travel 917.446
other subjects see table 1
Botanic gardens architecture 727.5
museums botany 580.7
Botanical chemistry **581.1**
Botanists' lives biography 925.8
Botany **580**
agricultural **630**
classification of 580.1
fossil **561**
geographical distribution **581.9**
medical **615**
of the Bible 220.858
structural **581**
systematic **580**
Botero, Giovanni Italian essays 854.48
Botin, Anders af, Swedish miscellany 839.7847
Böttiger, K: V. poetry 839.7168
Bottom of ocean physical geography 551.46
zoölogy 591.92
Bouches du Rhône, France, history 944.91
Bouchet, Guillaume French fiction 843.35
Boulders, drift 551.33
Boundaries law 347.2
national foreign rel. **327**
intern. law **341**
Bounties army 355
protection 337.4
U. S. army 353.6
"Bounty" mutiny, 1789 Pitcairn's island 997
[1] Bourbonnais France, history 944.57
Bourbons French " **944.03**
restoration **944.06**
Spain history 946.054
restoration 946.07
Boursault, E. French drama 842.44
Bourse stock exchange 332.6
Bovine vaccination contag. dis. 614.4731
Bowen, Francis Amer. philos. 191.7
Bowling alleys, architecture 725.84
Bowls amusements 796
Boxing athletics 796
Boycotting laboring classes 331.88
Boye, C. J. Danish drama 839.8261
Boyle lectures, apologetics 239.02
Bracciolini, F. Italian satire 857.52
Braces carpentry 694.3
Brachiopoda palæontology 564.8
zoölogy 594.8
Brachvogel, A. E., German drama 832.83
Brachygraphy, shorthand 653
Bracing engineering 624.3
Brackenridge, H. H. Am. fiction 813.21
Bradstreet, Anne Am. poetry 811.12
Brahe, Tyge Danish miscellany 839.883
Brahmanism 294
Brahmo Somaj, Indian religion 299.11
Brain anatomy 611.81
functional diseases of **616.84**
mental derangements **132**
mental physiology 131
physiology **612.82**
structural diseases of 616.83
Brakes railroad engineering 625.2
Branch libraries library economy 022.1
Branchial respiration animals 591.125
[1] Brandenburg, Germany history 943.15
travels 914.315
Brandes, Georg Danish essays 839.8466
Brandt, Geraert Dutch poetry 839.3136
Brandy **manufacture** **663**
stimulant 615.711
temperance **178**
Brant, Sebastian German satire 837.32
Brass instruments music **788**
manufacture 673
Brasses, monumental ecclesiology 247.3
sculpture 739
Braun, V. A. D. von, Swedish satire 839.7764
Bravery ethics 179.6
Brazil **administration** **354.81**
botany 581.981
finance 336.81
geology 558.1
history **981**
maps 912.81
schools, public 379.81
statistics 318.1
travel 918.1
treaties 341.281
other topics see table 1.
Breach of promise law 347.6
Bread adulterations 614.312
cookery 641
food 643
and-cheese war, 1491, Netherlands 949.202
Breadstuffs production 338.1
Break-bone fever diseases 616.921
Breakwaters harbor engineering 627.2
Breast wheels engineering 621.22
hydrostatics 532.84
Breasts anatomy 611.69

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Breasts diseases of women 618.19
Breathing animals 591.12
man 612.2
Breathings Greek language 481.2
[1] Brecknock, Wales, history 942.96
Bredero, G. A., Dutch drama 839.3231
Breech-loading guns 683
Breeding agriculture 636
animals 591.56
Brehon laws Irish law 349.415
[1] Bremen, Germany, history 943.52
travel 914.352
Bremer, Fredrika Swedish fiction 839.7363
Brentano, C. German fiction 833.72
Bresciani, A. Italian fiction 853.75
[1] Breslau history 943.14
travel 914.314
Brethren, United sects 284.6
Breton de los Herreros, M. Spanish drama 862.53
[4] **language 491.68**
literature 891.68
Breviaries Greek church 264.019
Roman catholic 264.02
Brewed beverages adulterations 614.343
chemical technology 663.3
Breweries architecture 725.42
Brewing 663.3
air pollution 614.731
Bribery criminal law 343
Bric-a-brac 739
Brick and hollow tile floors arch. 721.63
" iron ceilings architecture 721.73
" iron structures " 721.97
city houses " 728.32
" " detached " 728.38
" " semi " " 728.35
clays economic geology 553.61
construction masonry 693.2
piers 721.34
sun-dried masonry 693.22
village houses architecture 728.63
walls 721.24
work, bonds of masonry 693.21
works architecture 725.48
Bricks building material 691.4
manufacture 666.7
Bridal customs 392.5
Bridge-building 624
Bridges administration 351.815
engineering 624
local government 352.7
military engineering 623.6
Bridgewater treatises 215
Brigandage criminal law 343
Brigands law 343
[1] Brighton, Eng. history 942.25
travel 914.225
Bright's disease of the kidneys 616.61
Brink, R. C. B. van den, Dutch essays 839.3452
[1] Bristol, England history 942.41
[1] Bristol Co., Mass. history 974.48
Briticisms philology 427
[1] **British America history 971**
army 354.426
barrows prehist. arch. 571.92
[1] Burmah history 959.1
travels 915.91
colonies polit. sci. 325
[1] Columbia history 971.1
constitution 342.42
empire history 942
[1] Guiana history 988
travel 915.4
[1] Honduras history 972.82
[1] **India history 954**
travel 915.4
museum 062
library 027.542
navy 354.427
philosophers 192
statutes 346
Britons history 942
[1] **Brittany, France history 944.1**
Broad church Anglican church 283
Broadsword exercise, military science 356
Brochmand, Jesper Danish misc. 839.883
Brockes, B. H. German poetry 831.57
Brokerage law 347.7
Bromeliaceæ botany 584.22
Bromides hypnotics 615.782
Bromine compounds, mineralogy 549.4
inorganic chemistry 546.14
Bronchi anatomy 611.23
Bronchitis diseases 616.23
Bronté, C. English fiction 823.81
Bronze age pre-hist.archæology 571.3
manufactures 673
remains, pre-hist. arch. 571.34
Bronzes 739
Brook Farm socialism 335.97
[1] Brooklyn, N. Y. history 974.723
travels 917.4723
[1] Broome Co., N. Y., history 974.775
Brooms domestic economy 645
Brorson, H. A. Danish poetry 839.8144
Brothels ethics 176.5
Brotherhoods **monks 271**
parish work 255
Brothers, Christian monks 271.78
Brougham, H: English essays 824.74
Brown, C. B. Am. fiction 813.23

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Brown, T. English humor 827.46
Brown coal economic geology 553.22
Browne, C. F. (Artemus Ward) Am. humor 817.37
Brownian motion, molecular physics 539.6
Browning, E. B. English poetry 821.82
Robert " " 821.83
Brownists congregationalists 285.8
Brownson, O. A. Am. philosophers 191.2
Brueys, D. A. de French drama 842.46
Brumaire French history 944.045
Bruniaceæ botany 583.396
[1] Brunswick, Germany, history 943.54
Brunswick, house of, English history 942.08
[1] Brussels history 949.3
travel 914.93
Brutes, immortality of zoölogy 591.51
Bruun, J. N. Danish drama 839.8252
M. K. " poetry 839.8158
T. K. " satire 839.8753
Bryant, W. C., Am. poetry 811.33
Bryology botany 588.2
Bryophyta botany 588
Bryozoa molluscoidea 594.7
Bubble, Mississippi French finance 336.44
South sea stocks " 332.6
Buccaneers adventures, etc. 910.4
law 343
Buchanan, J. presidency of, hist. 973.68
[1] Bucharest history 949.8
travel 914.98
Buchholtz, A. H. German fiction 833.51
Buckets mining engineering 622.68
[1] Buckingham, England, history 942.57
Buckshot war Penn. history 974.78
[5] Bucolic poetry, English poetry 821.06
[1] Buda Pesth history 943.91
Buddhism 294
Buddhist architecture 722.4
Budgell, E. English essays 824.54
Budget English finance 336.42
financ. administration 351.72
[1] Buenos Ayres, history 982
travels 918.2
[1] Buffalo, N. Y., history 974.797
travels 917.4797
Buffalo zoölogy 599.7
Buffets fixed furniture 729.94
Bugle, key wind instruments 788.46
valve " " 788.47
Bugs rhynchota 595.75
Büheler, H. German poetry 831.34
Buhlwork 749
Building 690
accidents internal affairs 351.781
accounts, supervision of 692.7
Building architecture 720
associations, coöperative 334.1
loan institutes 332.32
construction, history of 690.9
contracts 692.9
laws, building 692.9
protection of life 614.85
rent of land for 333.6
stones econ. geol. 553.5
Buildings, hight of public health 614.784
inspection of 614.85
library admin. 025.9
economy 022
out architecture 728.9
public " 725
local government 352.5
transit, astronomical 522.13
[1] Bukowina history 943.75
[1] Bulgaria history 949.7
[4] **language 491.81**
Bull fights 791
ethics 175.6
Bull, Golden Germany 342.43
Bulletins library admin. 025.1
Bullets military engineering 623.5
Bullion coins and coinage 332.4
Bulls and bears stock exchange 332.6
Irish English humor 827
papal eccles. polity 262.8
Roman church 282
Bulwer, E. G. English fiction 823.84
Bundesrath German empire 354.4304
Bundling customs 392.4
Bunker hill monument 718
Bunsen pump, pneumatics 533.5
Bunyan, J. English fiction 823.42
Buonarroti, M. Italian drama 852.51
Buoys harbor engineering 627.9
protection of life 614.865
Burchiello, D., Italian satire 857.21
Burdette, R. J. Am. humor 817.43
Bureaucracy administration 351.1
Bureaus architecture 725.13
cabinet making 684
Burettes practical chem. 542.3
Bürger, G. A. German poetry 831.63
Burglar alarms signals 654.7
Burglary criminal law 343
Burgundy, France history 944.4
Burial cemeteries 719
church rituals 265.8
customs 393.1
public health 614.61
societies coöperation 334.8
Burke, E. English oratory 825.62
Burking criminal law 343

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

[5]Burlesque English literature 827
[1]Burmah history 959.2
[1] British, " 959.1
Burmanniaceæ, botany 584.13
Burmese architecture 722.4
Burnett, F. H. Amer. fiction 813.48
Burney, F. English " 823.66
Burning glass optics 535.81
the dead customs 393.2
Burnings customs of war 399
student life 371.89
Burns, R. English poetry 821.67
Burns and scalds surgery 617.11
Burroughs, John Am. essays 814.41
Bursæ anatomy 611.75
diseases of 616.76
Burseraceæ botany 583.247
Burying grounds cemeteries 719
public health 614.65
Business arithmetics 511.8
buildings architecture 725.2
colleges 650.7
commerce, sociology 380
coöperation 334
ethics 174
manuals 658
methods 658
Butchers 689
[1]Bute, Scotland history 941.39
Butler, S. English humor 827.42
Butter adulterations 614.325
artificial chem. tech. 664.3
dairy 637
Butterflies 595.78
Buttermilk adulterations 614.324
Buttons manufactures 679
Byles, Mather Am. satire 817.13
Byron, G. G. N. English poetry 821.76
Byssaceæ botany 589.19
Byzantine architecture 723.2
art 709.495
ecclesiology 246.1
empire history 949.5
Cab manufactures 684
Cabinet council, English 354.4205
making 684
officers, U. S. gov. 353.05
organ . musical instruments 786.9
work joinery 694.7
Cabinets in museums 579.71
Cable roads road engineering 625.5
submarine 654.5
telegraphic, sociology 384
useful arts 654
Cables manufactures 677
[1]Cabul, Afghanistan history 958.1
Cabul, Afghanistan travels 915.81
Cachet, lettres de French history 944.03
Cacteæ botany 583.471
Cadalso, J. de, Spanish poetry 861.42
Cadets military schools 355.07
[1]Cadiz history 946.8
travels 914.68
Cadmium inorganic chemistry 546.48
Cædmon Anglo Saxon poetry 829.2
[1]Caen history 944.22
travels 914.422
Cæsar Latin literature 878.1
Cæsarian section obstetrics 618.86
Cæsars lives 923.137
Roman history 937
Caesium inorganic chemistry 546.36
Cafés architecture 725.71
Caffeine diuretics 615.761
hygiene 613.83
Caffres history 968.6
Cage birds domestic pets 636.6
Cages mining engineering 622.68
Cairns prehistoric archæology 571.96
[1]Cairo, Egypt, history 962.1
travels 916.21
Caisson workers hygiene 613.66
[1]Caithness, Scotland history 941.13
[1]Calabria, Italy " 945.78
[1]Calais history 944.27
travels 914.427
Calcic waters economic geology 553.75
Calcium inorganic chemistry 546.41
light chemical technology 665.7
Calculators mathematics 510.8
Calculus diseases 616.62
mathematics 517
of direction analyt. geom. 516.8
[1]Calcutta history 954.1
travels 915.41
Calderon de la Barca, P. Sp. drama 862.35
[1]Caledonia history 941
Calendar 529
ecclesiastical, Anglican 264.031
Calendering paper manufacture 676
textile fabrics 677
Calhoun, John Caldwell, Am. oratory 815.26
Calico manufactures 677
printing, chemical technology 667.3
[1]California history 979.4
[1] Lower, " 972.2
Caligraphs writing machines 651
Caliphs Mohammedanism 297
Calisthenics hygiene 613.71
school hygiene 371.72
Calked joints plumbing 696.6
Calligraphy writing 651

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Callimachus Greek lyric poetry 884.8
Calmucks history 950
Caloric engines 621.41
physics 536
Calorimeter 536.6
Calpurnius Siculus, Lat. lyric poetry 874.6
[1] Calvados, France history 944.22
Calvinism sects 284.2
Calvinism vs. free will dogmatics 234
Calvinistic Baptist church 286.1
confession 238.4
Methodist church 287.2
Calvinists' lives 922.4
Calycanthaceæ botany 583.113
Calycereæ " 583.546
Calycineæ " 584.4
Calycozoa zoölogy 593.74
Cambistry money 332.45
metrology 389
[1] Cambodia history 959.6
Cambodian architecture 722.4
[1] Cambria, Wales history 942.9
Cambrian age geology 551.72
[1] Cambridge, Eng. history 942.59
travels 914.259
university 378.42
[1] Mass., history 974.44
travels 917.444
confession 238.5
platform creeds 238.5
Camel domestic animals 636.9
zoölogy 599.7
Cameos 736
Camera photography 771
lucida optics 535.86
Cameralistic science 336
Cameronians sects 285.5
Camp life hygiene 613.67
meetings 269
[1] Campagna, Italy history 945.6
travel 914.56
Campaigns American civil war 973.73
Campanales botany 583.57
Campania ancient history 937.7
[1] modern " 945.72
Campanulaceæ botany 583.59
Campbellism sects 289.2
[1] Campeche, Mexico history 972.6
Campenon, F. N. V. French poetry 841.66
Camphor therapeutics 615.789
Camping out 796
Camps, disinfec. cont. disease 614.48
hygiene 613.67
[1] Canada administration 354.71
botany 581.971
finance 336.71
Canada geology 557.1
history 971
maps 912.71
schools, public 379.71
statistics 317.1
travels 917.1
other topics see Table 1
[1] East, history 971.4
travels 917.14
[1] West, history 971.3
travels 917.13
Canal engineering 626
Suez 626.9
transit sociology 386
Canals, interoceanic engineering 626.9
Canary birds care of 636.6
zoölogy 598.8
[1] Isles history 946.8
Cancer diseases 616.994
Cancioneros, Los Spanish poetry 861.25
[1] Candahar history 958.2
travels 915.82
Candles chemical technology 665.1
Candor ethics 177.3
Candy making 642
Cane, sugar agriculture 633
botany 584.9
Canellaceæ " 583.137
Cannel coal economic geology 553.23
Cannibalism customs of war 399
Canning of fruits and vegetables, chem. technology 664.8
meats and fish, chem. tech. 664.9
Cannon military engineering 623.4
Canoes and canoeing 797
Canon law 348
music 781.5
of scripture 220.1
Canonization
Canons, Apostolical eccles. polity 262.6
church 262.6
Cañons rivers 551.48
[1] of Colorado River descr. 917.91
Canopy windows arch. decoration 729.83
[1] Cantal, France history 944.59
Cantata dramatic music 782.8
sacred music 783.4
Canterbury convocation, eccles. hist. 283.42
Cantharides animal poisons 615.94
Canticles Bible 223.9
[1] Canton, China history 951.2
travels 915.12
Cantù, C. Italian fiction 853.76
Canvas roofing building 695.8
Canvassing bookselling 655.57
Caoutchouc rubber manufacture 678

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Capacelli Albergati, F., Italian drama 852.63
Capacity for knowing mental facul. 151
[1]Cape Breton history 971.6
travels 917.16
[1] Colony, Africa history 968.7
[1] of Good Hope " 968.7
[1] Verde islands " 997
travels 919.7
Capet, Hugh French history 944.021
house of, " " 944.02
Capillaries anatomy 611.15
Capillary attraction in plants 581.11
of liquids 532.6
Capital and labor 331
punishment law 343.2
Capitalists' lives 923.3
Capitation-tax 336.23
Capitols architecture 725.11
Caporali, C. Italian satire 857.43
Cappadocia ancient history 939.34
Capparideæ botany 583.131
Capponi, G. Italian essays 854.75
Caprification secretions 591.145
Caprifoliaceæ botany 583.51
Caps, percussion, chemical technology 662.4
Capsule of eye-lens eye diseases 617.74
Captives international law 341.3
war customs 399
Captivities among the Indians 970.3
Captivity prison discipline 365
Captures international law 341.3
Capuana, Luigi Italian fiction 853.83
Capuchins religious history 271.74
Car-building 699
factories architecture 725.45
houses, R. R. " 725.33
Caravans transportation 656
Carbines military science 355
Carbo-hydrates nutrition 612.396
Carbolic acid materia medica 615.313
disinfectants cont. diseases 614.485
Carbon inorganic chemistry 546.26
compounds air pollution 614.721
materia med. 615.31
organic chem. 547
group inorganic chemistry 546.25
series economic geology 553.2
Carbonari secret societies 366
Carbonated waters hygiene 613.38
Carbonates mineralogy 549.78
Carbonic acid, air pollution 614.722
toxicology 615.96
oxide air pollution 614.722
narcotic poisons 615.96
Carboniferous age geology 551.75
fossils 560
Carburetted hydrogen air pollution 614.722
Carcano, Giulio Italian fiction 853.77
Card catalogs, library admin. 025.3
playing 795
ethics 175.5
Cardiff giant humbugs 133.7
[1]Cardigan, Wales history 942.95
Cardinals ecclesiastical polity 262.13
lives 922.2
Roman church 282
Carducci, Giosuè Italian poetry 851.84
Care of animals animal hygiene 614.94
body, hygiene 613.4
school hygiene 371.73
eyes " " 371.72
person 391.6
Carelius, Olof, Swedish poetry 839.7141
Caria ancient history 939.24
Caribbean sea travels 917.29
[1]Caribbee Islands history 972.97
Caricature drawing 741
Carillon music 789.5
[1]Carinthia, Austria, history 943.66
Carlén, Emilie, Swedish fiction 839.7365
Carleton, William American humor 817.45
Carlist wars in Spain Spanish hist. 946.07
Carlovingian cycle legend 398.2
[1]Carlow, Ireland history 941.88
Carlson, F. F., Swedish miscellany 839.7864
Carlyle, T. English essays 824.82
[1]Carmarthen, Wales history 942.98
Carmelites monks 271.73
sisterhoods 271.971
[1]Carnarvon, Wales history 942.92
Carneades Greek philosophy 186.2
[1]Carniola, Austria history 943.67
Carnivora mammals 599.7
Carnivorous plants botany 581.53
Carol sacred music 783.6
[1]Caroline Islands 996.6
Carolingian dynasty, French history 944.01
German " 943.021
Carpathos ancient history 939.17
modern " 949.97
Carpentry 694
stereotomy 515.82
Carpets designing 745
domestic economy 645
manufacture 677
Carpocratian heresy 273.1
Carposporeæ, algæ 589.4
fungi 589.21
Carrer, L. Italian poetry 851.76
Carrera, V. " drama 852.83
Carriage and car factories archit. 725.45
houses architecture 728.94

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Carriage making 684
Carrier pigeons domestic birds 636.6
Carriers in irrigation sanitary eng. 628.366
law 347.4
Cars building 699
disinfect., cont. dis. 614.48
horse engineering 625.6
railroad engineering 625.2
[1]Cartagena history 986
travels 918.6
Cartesianism philosophical systems 144
Carthage ancient history 939.73
Carthaginian architecture 722.3
[4] **language** 492.6
war Roman history 937.04
Carthusian monks 271.71
Cartilages anatomy 611.72
Cartography maps, atlases, etc. 912
Cartoons 741
Cartridges military science 623.4
Carved decoration architecture 729.5
Carving dining 643
sculpture 736
Caryophylleæ botany 583.152
Caryophyllineae " 583.15
Casa, G. della, Italian poetry 851.38
Casements fortifications 623.1
Cases English syntax 425.5
Greek " 485.5
Latin " 475.5
[3] other languages
law American digests 345.5
reports 345.4
English digests 346.5
reports 346.4
[1]Cashmere history 954.6
[1]Caspian Sea travels 914.78
Cassi, F. Italian poetry 851.65
Cassia tree botany 583.32
Cassinoid curve anal. geom. 516.26
Cast iron structures architecture 721.91
Castanets musical instr. 789.4
Caste in India, social ethics 177.5
Castelar, E. Spanish oratory 865.52
Castelein, M. de Dutch poetry 839.3123
Caste ethics 177.5
Castellazzo, L., Italian fiction 853.81
Castelvetro, L., " essays 854.41
Casti, G. " satire 857.63
Castiglione, B. " essays 854.33
[1]Castile, New, history 946.4
[1] Old " 946.3
Castillejo, C. de Spanish poetry 861.32
Casting foundries 671
Castles architecture 728.81
Castor and Pollux mythology 292
Castrametation military science 355
Cástro y Bélvis G. de, Spanish drama 862.32
Casts 730
Casualties protection from public health 614.8
Casuarineæ botany 583.975
Casuistry ethics 171.6
Catacomb symbols ecclesiology 246.5
Catacombs antiquities 913.37
cemeteries 719
symbols 246.5
[4] **Catalan language** 449.9
literature 849 9
Catalepsy 132.4
Catalog dept. library economy 025.3
Catalogers library economy 023.5
Cataloging 025.3
Catalogs author 018
book publisher's 015
college 378
dictionary 019
of special authors 012
countries 015
subjects 016
star maps 524.8
stars 523.89
subject 017
universal 011
[1] Catalonia, Spain history 946.7
Cataracts eye diseases 617.74
physical geography 551.48
Catarrh diseases 616.205
epidemic diseases 616.203
Catarrhal affections of skin 616.52
Catch vocal music 784.1
basins of sewers, sanitary eng. 628.255
Catechisms 238
Catenary curve physics 531.83
Cathari persecutions 272.4
sects 284.4
Catharine I. Russian history 947.06
II. " " 947.06
Cathartics therapeutics 615.732
[1] Cathay history 951
travels 915.1
Cathedral canons eccles. polity 262.3
services musical 783.2
system ecclesiastical 262.3
Cathedrals architecture 726.6
Catholic apostolic church 289.5
church 282
epistles Bible 227.9
Catholicism and Protestantism 282
Catholics' lives biography 922.2
Cato, Valerius, Latin satire 877.2
Cats, Jacob Dutch poetry 839.3131

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Cats 636.8
[1] diseases of medicine 619.8
Catskills, N. Y. history 974.738
travels 917.4738
[1] Cattaraugus Co., N. Y. history 974.794
Cattle 636.2
diseases contag. hygiene 614.91
vet. med. 619.2
markets architecture 725.27
Catullus Latin lyric poetry 874.2
Tibullus, and Propertius 874.1
[1] Caucasia history 947.9
Caucuses 324
Cauls anatomy 611.38
Causation philosophy 122
Cause and effect " 122
Causes final " 124
of contagious diseases 614.41
Caustic potassa external irritants 615.775
Cavalca, D. Italian essays 854.11
Cavalcanti, G. " poetry 851.14
Cavallotti, F. " drama 852.85
Cavalry 357
[1] Cavan, Ireland history 941.69
Cavatina music 784.2
Cave men prehistoric archæology 571.12
temples Indian arch. 722.4
Caves geology 551.44
natural dwellings 571.81
Cavour Italian history 945.09
[1] Cawnpore, India " 954.2
[1] Cayenne Island " 988
[1] Cayuga Co., N. Y. " 974.768
Cecchi, G. M., Italian drama 852.43
Ceilings architecture 721.7
carved arch. decoration 729.58
mosaic " " 729.71
painted " " 729.48
vaulted architecture 721.4
Celastrales botany 583.27
Celastrineæ " 583.271
[1] Celebes history 991.2
Celebrations, invention of printing 655.12
Celestial dynamics 521.1
sphere 522.71
Celestina Spanish fiction 863.23
Celibacy ethics 176 2
hygiene 613.89
of clergy 254
Cell houses prison architecture 725.62
Cells biology 576.3
histology botany 581.8
zoölogy 591.8
physiological botany 581.1
Cellular confinement prisons 365
punishments 343.2
Cellular tissue, botany 581.8
Cellulitis diseases 616.77
Celluloid manufactures 679
Cellulose botany 581.8
Celsius, Anders, Swedish miscellany 839.7835
Olof " " 839.7846
Celtic antiquities 913.36
Druids, religion 299.16
[4] **language 491.6**
Celts ancient history 936
French " 944.01
stone archæology 571.25
Cements building material 691.5
manufacture 666.9
mineral, econ. geol. 553.68
Cementum, diseases of dentistry 617.62
Cemeteries 719
earth burial 393.1
effect on health 614.65
Cemetery chapels architecture 726.8
Censers sacred vessels 247.9
Censorship of the press 323
Censuses statistics 310
Cent-gramme-second system physics 530.8
Centenarians physiology 612.68
Centennial celebrations see subject
exhibition, United States 606
Centipedes zoölogy 595.6
Centlivre, Mrs. English drama 822.53
"Cento novelle antiche" Ital. fict. 853.11
[1] **Central Africa history 967**
travel 916.7
North history 966
travels 916.6
[1] **America history 972.8**
travel 917.28
[1] **Asia history 958**
nervous system, physiol. 612.82
Pacific railroad 385
Park 711
Centralization, administrative, Eng. 354.4201
France 354.4401
Germany 354.4301
U. S. gov. 353.01
political science 320.1
Centre of gravity physics 531.24
Centrifugal blowers engineering 621.63
force physics 531.35
pumps engineering 621.67
Centripetal force physics 531.35
Centrolepideæ, botany 584.82
Cephalization, zoölogy 591.4
Cephalopoda " 594.5
Ceramic productions building 691.4
Ceramics fine arts 738
manufacture 666.3

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Ceratophylleæ, botany 583.987
Cereals adulterations 614.312
agriculture 633
botany 584.9
trade in agric. products 338.1
Cerebral poisons therapeutics 615.96
Cerebration, unconscious 153
Cerebria diseases 616.83
Cerebro-cardiac poisons 615.99
spinal circulation, diseases 616.81
fever " 616.925
meninges " 616.82
meningitis 616.82
poisons, therapeutics 615.98
Ceremonies customs 394.4
religious ritual 264
Cerium group inorganic chem. 546.6
inorganic chemistry 546.62
oxalate of therapeutics 615.735
Certainty knowledge 121
of medicines therapeutics 615.51
Certificates of, teachers 371.13
Cervantes Saavedra, M. de Sp. fict. 863.32
Cervix dilatation, obstet. operations 618.84
diseases of women 618.14
Cesari, A. Italian essays 854.67
Cess-pools air pollution 614.764
Cestoda parasitic diseases 616.964
Cestoids worms 595.1
Cetacea zoölogy 599.5
[1] Ceylon history 954.8
travel 915.48
Chailletiaceæ botany 583.255
Chalcography, engraving 762
Chaldæa ancient history 935.1
Chaldean architecture 722.5
philosophy 181.6
[4] Chaldee language 492.2
Chalets architecture 728.7
Chalices sacred vessels 247.8
Chalk lithology 552.54
beds economic geology 553.68
Challenger expedition, 1873–76 508.3
Challenges duels 394.8
Chalukyan architecture 722.4
Chalybeate waters economic geology 553.73
Chamber music 785.7
Chambers of commerce reports 381
Chameleon zoölogy 598.11
Chamisso A. von German fiction 833.68
[1] Champagne, France history 944.3
Championship games amusements 790
ethics 175.7
school hygiene 371.75
Champlain, lake travels 917.4754
Chance, games of amusements 795
ethics 175.5
natural theology 214
probabilities 519
vs. cause metaphysics 122
Chancellors' lives 923.4
Chancels ecclesiology 246.1
Chancery, court of 347.99
law 347.8
reports **American law 345.4**
English law 346.4
Chances mathematics 519
Chandeliers 749
Change of air, hygiene 613.12
seasons 525.53
Changes of blood respiration 612.23
[1] Channel Islands history 942.34
Channels, hydrography of surveying 526.99
open, hydraulics 532.54
Channing, William Ellery, Am. essays 814.23
Chanson de Geste French poetry 841.11
Roland " " 841.11
Chant, Gregorian ecclesiology 246.8
Chants sacred music 783.5
Chapbooks 398.5
Chapelain, J. French poetry 841.44
Chapels architecture 726.4
cemetery " 726.8
Chapin, Edwin Hubbell, Am. oratory 815.35
Chaplains ministry 262.1
Chaps skin disorders 616.58
Chapter-and-verse division Bible 220.1
Characeæ botany 588.4
Character ethics 170
formation of 374
of reading 028.9
Charades 793
Charbon public health 614.561
Charcoal and chemicals in sewers 628.237
burning air pollution 614.735
chemical technology 662.7
drawing 741
fuel 644
[1] Charente, France history 944.65
[1] Inférieure, France, history 944.64
Charging systems libraries 025.6
Charitable associations 361
institutions 361
Charities American civil war 973.777
and corrections 360
Charity ethics 177.7
political economy 361
public administration 351.84
schools 377.7
sisters of 271.91
Charlatanry quackery 133.7

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Charlemagne, age of, European hist. 940.3
French history 944.01
German " 943.01
legends 398.2
Charleston, S. C. history 975.7
Charles I. English history 942.062
II. 942.066
Charles IV. French history 944.024
V. 944.025
VI. 944.026
VII. 944.026
VIII. 944.027
IX. 944.029
X. 944.062
Charles II. German history 943.021
III. 943.021
IV. 943.026
V. German history 943.031
Netherlands history 949.202
Spanish " 946.04
VI. German " 943.052
VII. 943.054
Charles I. Spanish history 946.04
II. 946.053
III. 946.057
IV. 946.058
Charles XIV. Swedish history 948.07
travels 917.57
Charters of cities 352
Chartier, A. French poetry 841.21
Chartism Eng. constitut. history 342.42
Chartists political party 329.942
Chartography maps, atlases, etc. 912
Charts geography 912
history 902
maps 912
of comets astronomy 523.69
moon " 523.39
planets " 523.49
stars " 523.89
sun " 523.79
Chase hunting 799
Chasing sculpture 736
Chastelain, G. French fiction 843.24
Chastity ethics 176.1
Chateaubriand, F. A. R. vicomte de
French fict. 843.65
Chateaux architecture 728.82
Chatham, William Pitt, Eng. oratory 825.61
Chatrian, A. French fiction 843.85
Chattels law 347.3
Chatterton, T. English poetry 821.63
Chaucer, G. " " 821.17
Chaulieu, G. A. de French poetry 841.47
Chautauqua self-education 374.7
[1] Co., N. Y. history 974.795
Cheating ethics 174
student life 371.81
Checkers 794
Checks banks 332.1
commercial law 347.7
Cheese adulterations 614.327
dairy 637
Cheiroptera mammals 599.4
Chelonia reptiles 598.13
Chemical affinity 541.3
agents, effects of diseases 616.987
analysis 543
apparatus 542.2
disinfectants con. dis. 614.484
elements chemical tech. 661.1
equations 541.9
fire extinguishers 614.845
industries 660
jurisprudence law 340.6
laboratories 542.1
architecture 727.5
manipulation 542.2
nomenclature 541.9
physics 541
physiology 591.1
technology 660
treatment of wastes 628.544
works air pollution 614.72
Chemicals in sewers sanitary eng. 628.237
manufacture of 661
Chemistry 540
agricultural 631
analytical 543
and natural religion 215
applied to the arts 660
economic zoölogy 591.64
industrial chem. tech. 660
inorganic 546
legal law 340.6
medical materia med. 615
of poisons chem. analysis 543.5
toxicology 615.9
organic 547
physiological 612.01
study of disease 616.076
Chemists' lives biography 925.4
[1] Chemung Co., N. Y. history 974.778
[1] Chenango Co., N. Y. " 974.773
Chénier, A. M. de French poetry 841.56
M. J. de drama 842.66
Chenopodiaceæ botany 583.914
Cheques commercial law 347.7
[1] Cher, France, history 944.55
Cherbuliez, V., French fiction 843.87
[1] Cheshire, England history 942.71
Chess amusements 794

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Chess	ethics	175.4
Chest	anatomy	611.94
	diseases	**616.2**
	surgery	617.54
Chester plays	English drama	822.11
Chesterfield	" letters	826.52
Chiabrera, G.	Italian poetry	851.51
[1]Chiapas, Mexico	history	972.7
[1]Chicago	history	977.31
	travels	917.731
Chichimec civilization	Mex. history	972.012
Chicken-pox	diseases	616.914
	public health	614.525
Chief justices' lives		**923.4**
librarian	library economy	023.4
[1]Chihuahua, Mexico	history	972.1
Chilblains	skin disorders	616.58
Child labor	political economy	331.3
Childbirth	**obstetrics**	**618.2**
Children, asylums for	architecture	725.57
	sociology	362.7
care of		649
cruelty to	ethics	179.2
diseases of		618.9
duties of	ethics	173.6
education of		**372**
games of	out-door	796
hospitals for		362.7
moral care for		**377**
Children's crusade	European history	940.4
Chile	**administration**	**354.83**
	botany	581.983
	finance	336.83
	geology	558.3
	history	983
	maps	912.83
	schools, public	379.83
	statistics	318.3
	travels	918.3
	treaties	341.283
	other topics see table 1	
Chiliasm	millennium	236.3
Chimes of bells	music	789.5
Chimney pieces	architecture	729.95
sweeping,	domestic economy	644
Chimneys	heating	697.8
	high sanitary eng.	628.522
	masonry	**693**
	sewer ventilation	628.236
China	**administration**	**354.51**
	botany	**581.951**
	finance	**336.51**
	geology	**555.1**
	history, ancient	931
	modern	**951**
	maps	**912.51**
China	**schools, public**	**379.51**
	statistics	**315.1**
	travels	**915.1**
	treaties	341.251
	other topics see table 1	
ware	fine art	738
	useful arts	666.5
Chinese architecture		722.1
art		709.51
immigration		325.251
labor	polit. economy	331.6
language		495
literature		895
philosophy		181.1
religion		299.5
Chios	ancient history	939.13
[1]	modern "	949.93
	travels	914.993
Chirography	penmanship	652
Chiromancy	palmistry	133.6
Chitarra, C. dalla	Italian satire	857.12
Chivalry	age of Europ. hist.	940.4
	customs	394.7
Chlænaceæ	botany	583.168
Chloral	hydrate, poisons	615.967
	hygiene	613.83
	hypnotics	615.782
	temperance	178.8
Chloranthaceæ	botany	583.926
Chlorides as disinfectants		614.487
Chlorine compounds	air pollution	614.726
	mineralogy	549.4
inorganic chemistry		546.13
Chloroform	anæsthetics	615.781
	poisons	615.966
Chlorophyll	botany	581.8
Chlorophyllaceæ	botany	589.8
Choate, Rufus,	American oratory	815.32
Chocolate	adulterations	614.347
	manufactures	663.9
Choctaw language		497
literature		897
Choice, freedom of	mental faculties	159
	metaphysics	123
of editions		028.2
vocation		
Choir	music	783.8
Cholagogues	therapeutics	615.742
Cholera	**diseases**	**616.93**
	infantum, pub. health	614.515
	protective inoculation	614.475
	public health	614.514
Choral service	sacred music	783.24
Chorale	" "	783.6
Chord process	geodesy	526.43
Chorea	diseases	616.851

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Choriambics Greek prosody 486.3
Choroid eye diseases 617.72
Chorus sacred music 783.8
vocal " 784.86
Chrestien de Troyes French poetry 841.14
[3]Chrestomathy English language 428.7
Christ **doctrinal theology** **232**
lives 232.9
Christening baptism 265.1
customs 392.1
Christian antiquities
apologetics **239**
architecture eccles. **726**
medieval **723**
art **247**
associations **267**
Brothers monks 271.78
church **260–289**
doctrines **230**
education **377**
ethics 171.1
fathers relig. hist. **270**
fathers' works **281.1**
iconography **246**
sculpt. 732
institutions **260**
life personal religion 248
names 929.4
philosophy patristic 189.2
science therapeutics 615.851
sects **280**
socialism 335.7
Sunday 263.3
union 280
[1]Christiania, Norway history 948.2
travels 914.82
Christianity and science apologetics 239.8
evidences 239
history **270–289**
primitive 270.1
Christians **biography** **922**
[1]Christiansand, Norway history 948.3
Christine de Pisan French fiction 843.21
Christmas customs 394
festival sacred music 783.28
Christology **doctrinal theology** **232**
Chromates mineralogy 549.74
Chromatic aberration optics 535.4
scale theory of music 781
Chromatics optics 535.6
Chromatography 752
Chromium economic geology 553.46
group inorg. chem. **546.75**
inorganic chem. 546.76
Chromolithography 764
Chromometry colorimetry 545.8
Chromosphere, sun **523.75**
Chronic diseases pathology **616**
Chronicles Bible 222.6
history see special subject
Chronograph astronomy 522.52
Chronologies history 902
Chronology **astronomy** **529**
biblical Bible 220.94
Chronometer astron. instr. 522.51
longitude determ. 525.47
manufacture 681
Chrysippus stoic philosophy 188.3
Chrysolitic rocks 552.48
Church **260–289**
and clergy law 348
education **377.8**
state eccl. polity 261.7
ethics 172.3
political science 322
Apostolic 281.1
architecture **726**
authority 262.8
bells manufactures 673
music 789.5
benefices clerical support 254
Christian **260–289**
decoration, sacred orn. **247**
discipline eccles. polity 262.9
fathers 281.1
fellowship 265.2
festivals, worship **264**
furniture **247**
government **262**
history **270–289**
membership ordinances 265.2
music **783**
needlework **247**
of England 283
Rome 282
Scotland Presbyterian 285.2
polity **262**
primitive 270.1
property
rates clerical support 254
religious history **270–289**
sacraments **265**
schools **377**
sects **280**
services public worship **264**
sociology 322
vestments 247.7
work **260**
yards, cemeteries 719
Churches architecture 726.5
burials in public health 614.613
hygiene 613.55

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Churches national vs. organic unity 261.8
various christian 280
Churchill, C. English satire 827.61
Chyle blood-making 612.119
Cibber, Colley, English drama 822.54
Cicero, complete works 875.1
Greek philosophy 186.3
letters 876.1
Cid, Poema de mio Spanish poetry 861.12
Romancero del " " 861.27
Cienfuegos, N. A. de, Spanish poetry 861.48
Cilia physiology 612.72
Ciliary body eye diseases 617.72
Ciliata zoölogy 593.17
Cilicia ancient history 939.35
[1] modern " 956.4
travel 915.64
Cinchonia materia medica 615.336
[1] Cincinnati, O. history 977.1
travels 917.71
Cincinnati society of 369.131
Cinematics mechanics 531.1
Cinerary urns, treatment of the dead 393.2
Cipher writing 651
[1] Circassia history 947.9
Circle German local gov. 352.0433
sailing, great navig. 527.5
Circles perspective 515.65
plane geometry 513.21
prehistoric archæology 571.95
Circuit court reports, U. S. 345.41
Circular arches architecture 721.41
domes " 721.46
functions trigonometry 514.1
section of sewers 628.223
Circulating libraries 027.3
Circulation and blood, physiology 612.1
cerebro-spinal diseases 616.81
in animals zoölogy 591.11
in plants botany 581.11
oceanic ocean currents 551.47
Circulatory organs comp. anat. 591.41
descr. " 591.71
system anatomy 611.1
diseases of 616.1
drugs acting on 615.71
surgery 617.41
Circumcision 392.1
Circumnavigations 910.4
Circumpolar stars maps 523.89
Circumstantial evidence law 347.94
Circuses amusements 791
ethics 175.1
Cirripedia zoölogy 595.35
Cissoid curves, anal. geometry 516.26
Cistercian monks 271.72
Cisterns rural water supply 628.7
Cistineæ botany 583.134
Cités ouvrières, architecture 728.13
Cities administration 352
ancient description 913.3
buried " 913.3
free, German gov. 354.4309
growth of, administration 352.001
health of 614.145
plans of 912
scavenging of 628.4
water and sewage works 628.09
Citizens, duties of ethics 172.1
Citizenship law 347.1
Citrates diuretics 615.761
City governments, administration 352
halls architecture 725.13
homes of poor " 728.11
hotels " 728.51
houses " 728.3
life
mortality public health 614.145
property local gov. 352.1
transit sociology 388
Civil authority local government 352
engineering 620
government and the church 322
ethics 172.3
relig. 261.7
government, polit. science 320
law 349
liberty political science 323
lists 351.2
pensions administration 351.5
procedure law 347.9
rights
service administration 351
municipal gov. 352.005
officials, lives 923.5
reform admin 351.6
U. S. hist. 973.8
trials 347.9
war ethics 172.4
slavery 326
U. S. history 973.7
Civility ethics 177.1
Civilization and the church 261.6
history 901
philosophy of 901
primitive 571
[1] Clackmannan, Scotland **history** 941.35
Claims against governments 336
U. S. court of history 347.99
reports 345.41
Clairvoyance 134
Clans political science 321.2

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Clans Scottish history 941
[1] Clare, Ireland history 941.93
Clarinet wind instruments 788.6
Class feeling ethics 177.5
meetings public worship 264.8
re-unions, colleges 378
student customs 371.89
system suffrage 324.2
Classed catalogs bibliography 017
lib. admin. 025.3
Classes, school 371.25
Classical antiquities 913.38
biography 920.03
education 375.88
geography 912.3
literature, Greek 880
Latin 870
mythology 292
philology Greek lang. 480
Latin " 470
schools, private, educ. 373
public, " 379
Classics Greek literature 880
Latin " 870
Classification of animals zoölogy 590.1
books library econ. 025.4
chemistry 541.9
diseases medicine 616.01
knowledge methodology 112
languages philology 401
library 025.4
philosophy 112
plants botany 580.1
sciences nat. sci. 501
Clavichord musical instruments 786.1
Clay, Henry Am. oratory 815.25
Clay chemical technology 666.4
petrography 552.52
Clays, brick, fire, potters' geology 553.61
Cleanliness of body hygiene 613.4
clothing " 613.483
Cleanthes stoic philosophy 188.2
Clearing house, banking 332
Cleavage crystallography 548.3
geology 551.84
Clemency ethics 179.9
Clemens, S. L. Am. humor 817.44
Clement philosophy 189.2
Clementines apocrypha 229.9
Cleopatra's needle monuments 718
Clepsydra chronology 529.78
Cleptomania derangements 132.6
Clerc, Jean de Dutch miscellany 839.381
Clergy, benefit of legal antiquities 340.3
canon law 348
Clergy, celibacy of ethics 176.2
pastoral theol. 254
ethics 174.1
holy orders 262.1
lives of 922
pastoral work 250
Clerical support 254
tithes 336.21
Clerks' occupation hygiene 613.65
Cleveland, G. first presidency of 973.85
[1] Cleveland, O. history 977.1
travels 917.71
Cliff dwellings, prehistoric arch. 571.84
Climacterics physiology 612.6
vital statistics 614.13
Climate effects of diseases 616.988
therapeutics 615.834
hygiene 613.11
influence on man 573.4
meteorology 551.56
seasons 525.5
Climatology contagious diseases 614.42
physical geography 551.56
Climbers birds 598.7
Climbing plants habits 581.5
Clinics medical education 610.7
[1] Clinton County, N. Y. history 974.754
Clock, sidereal 522.51
Clock-making 681
Clocks chronology 529.78
Cloistered nuns 271.96
Close communion Baptists 286
sacrament 265.3
Closet, earth sanitary engineering 628.43
Cloth manufactures 677
Clothes-making 687
Clothing disinfection, contag. dis. 614.48
domestic economy 646
hygiene 613.48
of laboring classes 331.83
support from hips 613.484
Clouds meteorology 551.57
Club foot surgery 617.39
houses architecture 728.4
libraries 027.2
Clubs, literary, education 374.3
social 367
workingmen's, architecture 725.93
Clusters and nebulæ stars 523.85
Cnidaria zoölogy 593.5
Coach building carriage making 684
Coaching amusements 798
business 656
Coagulation of blood physiology 612.115
Coal, economic geology 553.2
fuel chemical technology 662.6

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Coal fuel, domestic economy 644
metallurgy 669.8
gas domestic lights 644
heating 697.6
illuminating gas 665.7
mineralogy 549.8
mining 622.33
oil chemical tech. 665.4
domestic lights 644
economic geology 553.28
mineralogy 549.8
tar colors chemical technology 667.2
products " " 668.7
therapeutics 615.75
washing ore dressing 622.78
Coalescence, fœtuses deformities 617.35
incomplete " 617.32
of parts " 617.33
Coast changes, erosion 551.36
defence, military eng. 623.3
pilot 656
Survey, U. S. geodesy 526
tides 525.64
Coasting sports 796
Coasts, hydrography of surveying 526.99
Coats of arms, heraldry 929.8
Cobalt inorganic chemistry 546.73
ores, economic geology 553.48
Coca hygiene 613.85
[1] Cochin China, French history 959.7
Cochineal dyeing 667.2
Cock fighting 796
ethics 175.6
Cocoa adulterations 614.347
manufacture 663.9
Cocoon silkworms 638
Cod fishery fishing 639
Code Napoleon French law 349.442
Codes, American law 345.22
Codices Bible mss. 220.4
Codification of law U. S. law 345.2
Co-education 376.7
of races 371.99
Cœle Syria ancient history 939.42
Cœlenterata zoölogy 593 3
Coffee adulterations 614.347
agriculture 633
botany 583.52
commercial mixing of 663.9
domestic economy 641
houses customs 394.1
hygiene 613.37
stimulants 615.711
Coffer-dams river engineering 627.8
Coffins burial customs 393.1
perishable pub. health 614.614
Cog wheels mech. eng. 621.83
Cognition metaphysics 126
[1] Cohahuila, Mexico history 972.1
Cohesion physics 539.2
Coils electric apparatus 537.86
theory of dynamic electricity 537.51
Coinage administration 351.822
political economy 332.4
Coins numismatics 737
Coke chemical technology 662.7
fuel, domestic econ. 644
metallurgy 669.8
Colchis, Asia ancient history 939.53
Cold antipyretics 615.75
baths hygiene 613.43
drinks " 613.36
exposure to, protection of life 614.87
imponderable remedies 615.832
physics 536
storage architecture 725.35
Colds catarrh 616.205
Colenso controversy pentateuch 222.1
Coleoptera 595.76
Coleridge, S. T. English poetry 821.72
Colic diseases 616.34
Coleochaeteæ botany 589.47
[1] Colima, Mexico history 972.3
Coliseum Roman antiquities 913.376
Collapse lung diseases 616.249
Collected biography 920
sermons 252
travels 910.8
works, see subject.
Collecting biology 579.6
book library economy 025.2
bottle biology 579.612
Collection of taxes finance 336.29
Collections art galleries 708
engravings 769
[5] of poetry Eng. lit. 821.08
photography 779
useful knowledge 602
vocal music 784
other topics, see subject.
Collectors' manuals, biology 579
Collects Anglican ritual 264.036
College degrees 378.2
founders' lives 923.7
libraries 027.7
regattas athletics 371.75
societies student life 371.83
songs 784.6
Colleges agricultural 630.7
and universities 378
architecture 727.3
business 650.7

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Colleges for women 376.8
hygiene 613.54
Collegiants sects 284.9
Collegiate education women 376.6
Collenuccio, P. Italian essays 854.24
Collier controversy Shakspere 822.33
Collieries mining eng. 622.23
Collimation constant, astron. inst. 522.35
Collin-Harleville, J. F. Fr. drama 842.62
Collins W: English poetry 821.57
Collisions at sea maritime law 347.7
Colman, G. sr. English drama 822.63
[1]Cologne history 943.42
travel 914.342
[1] Colombia, So. Am. history 986
travels 918.6
Colonial history, U. S. 973.2
law English statutes 346.1
system, political science 325
Colonies " " 325
Colonization, African 325.6
history of Africa 960
political science 325.3
Colonnades architectural design 729.32
walls 721.26
Color blindness eye diseases 617.75
in man natural hist. of man 573.5
plants botany 581.157
of animals zoölogy 591.157
blood physiology 612.117
optics 535.6
painting 752
suffrage 324.1
sense mental faculty 152.1
[1]Colorado, U. S., history 978.8
Colorational variation zoölogy 591.157
Colored races natural hist. of man 573.5
tiles roofs 721.56
Colorimetric analysis chemistry 545.8
Coloring dyeing 667.2
matters, org. chem. 547
Colors, artificial chem. tech. 667.2
ecclesiology 246.6
manufacture of paints 667.6
painting 752
practical printing 655.32
Colosseum Roman antiquities 913.376
Colossians epistles 227.7
Colossus of Rhodes monuments 718
Colportage parochial 259
Columbates mineralogy 549.71
[1]Columbia Co., N. Y. history 974.739
[1] District of " 975.3
travels 917.53
Columbia college 378.747
Columelliaceæ, botany 583.829
Columns, arch. const. 721.3
architectural design 729.32
carpentry 694.4
carved arch. decoration 729.57
painted " " 729.47
sculpture 730
Combat, judicial legal antiquities 340.3
Combination arithmetic 511.5
Combinations of labor, polit. econ. 331.87
capital " " 331.1
Combinatory analysis algebra 512.5
Combined system of sewerage 628.211
Combretaceæ botany 583.414
Combustibles, storage pub. safety 614.831
Combustion chemistry 541.3
heat 536.46
in furnaces, ind. sanit. 628.524
[5] **Comedy English drama 822**
Comella, L. F. Spanish " 862.41
Comets 523.6
charts 523.69
connection with meteors 523.56
maps, observations 524.6
theory 521.7
[5] Comic journals English literature 827
music dramatic 782.6
[5] **works English lit. 827**
Commagene, Asia ancient history 939.36
Commanders' lives biography 923.5
Commelinaceæ botany 584.38
Commemorations Amer. civil war 973.76
Commemorative sermons 252.9
Commensalism zoölogy 591.5
Commentaries, Bible 220.7
law 347
Commerce, regulation of law 347.7
sociology 380
useful arts 650
Commercial arithmetics, mathematics 511.8
buildings, architecture 725.2
fertilizers air pollution 614.748
industry, admin. 351.824
law 347.7
morals ethics 174
panics political economy 332
travelling commerce 658
Commissions, building 692.8
Commissure, extension of, deformities 617.34
Common carriers law 347.7
Common law, American 345
British 346
right copyright 655.61
treatises 347
pleas, court of 347.99
prayer **Anglican ritual 264.03**
schools, public **379**

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Commonplace-books lit. methods 029.4
Commons, House of Eng. legis. 328.42
student life 371.88
Commonwealth English history 942.063
Roman " **937.02**
Commonwealths, ideal polit. science 320.1
Commune, French local gov. 352.0446
German 352.0434
of 1871 French history 944.08
political economy 335
Communes, age of, in Italy 945.04
Communication, administration 351.81
heat 536.2
magnetism 538.2
mode of, cont. dis. 614.43
sociology 380
useful arts 650
Communion, close baptists 286
holy sacrament 265.3
services, sacred music 783.21
Communism political economy 335.4
Communists, French 335
Community of land political econ. 333.2
Compact ethics 174.7
Companies associations 360
Companies, joint stock law 347.7
Comparative anatomy animals 591.4
plants 581.4
embryology zoöl. 591.3
legislation 340.5
medicine 619
mythology 291
philology 410
physiology zoölogy 591.1
religion 290
theology dogmatics 230
wages polit. econ. 331.2
Comparetti, D. Italian essays 854.86
Compass magnetism 538.7
variations of, astron. 522.76
[2] Compends, see subject.
Competition prices 338.5
wages 331.2
Competitive examinations, civil ser. 351.3
examinations, schools 371.27
musical festivals 784.5
Complex ores metallurgy 669
variables calculus 517.8
Complications in labor, obstetrics 618.5
Compline Anglican ritual 264.034
Composers' lives 927.8
Compositæ botany 583.55
Composite floors and flooring 721.65
order of architecture 729.32
structures, arch. const. 721.94
Composition architectural design 729.11
Composition artistic type-setting 655.26
elementary English 428.2
music 781.6
rhetoric 808
type-setting 655.25
with creditors law 347.7
Compound floors and flooring 721.64
Compounds with metals. org. chem. 547.9
Compressed air engines 621.42
Compressibility of air pneumatics 533.2
Compression of gases physics 533.2
Compromise bill, 1850 U. S. history 973.63
ethics 171
Compulsory education 379.23
insurance 331.2
vaccination, pub. health 614.4738
Compurgation, legal antiquities 340.3
Computation arithmetic 511
Comte French philosophy 194.8
positivism 146
Concept mental philosophy 153.1
Conception, immaculate Christology 232.1
physiology 612.63
Concert teaching 371.31
Concertina music 786.9
Concerto orchestral music 785.6
Conchifera brachiopoda 594.8
lamellibranchiata 594.1
Conchoid curve anal. geometry 516.26
Conchology 594
Conclave, papal eccles. polity 262.13
Concord philosophy, Emerson 191.3
Concordances Bible 220.2
[2] special, see subject.
Concordat eccles. polity 262.13
internat. law 341.2
Concrete building material 691.3
ceilings 721.75
construction 693.5
foundations 721.13
pavements 625.8
piers and columns 721.33
roofing 695.6
village houses 728.64
walls 721.23
Concretion geological agent 551.98
Concubinage sex customs 392.6
Concussion injuries 617.21
Condemned books book rarities 098
Condensation action of heat 536.44
of effluvium, sanit. eng. 628.523
vapor pneumatics 533.1
Condensers chemistry 542.4
electricity 537.24
steam engineering 621.11
Condensing pump pneumatics 533.83

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Condillac French philosophy 194.3
Condiments adulterations 614.314
chemical technology 664.5
Conditional immortality 237.3
sentences Eng. gram. 425.4
Greek " 485.4
[3] other languages
Conditions influencing animal temperature 612.54
Conduct of life ethics 170
Conduction electricity 537.22
heat 536.2
Conductivity of rocks geology 551.14
Conduits telegraph 654.4
ventilation 697.9
water works 628.14
Cone modern geometry 513.53
solid " 513.42
Confectionery 642
adulterations 614.311
Confederate States U. S., civ. war 973.7
Confederation, American colonies 973.3
N. German 943.081
of the Rhine 943.06
1783-89 U. S. history 973.318
Conference meetings pub. worship 264.7
Confession and absolution, sacrament 265.6
Augsburg 238.4
auricular sacraments 265.6
Confessional Roman church 282
Confessions creeds 238
of faith ritual 264.5
Confinement, punishment 343.2
schools 371.56
solitary, criminal law 343.2
prison discipline 365
Confirmation sacraments 265.2
Conflagrations 614.84
Conflict of duties 171
laws, international law 341.5
Conformity Anglican church 283.42
Confucianism religion 299.5
Confucius Chinese philosophy 181.1
Congelation physics 536.43
Congenital defects of body hygiene 613.91
distortions surgery 617.39
Congestion of the lungs diseases 616.242
Conglomerate lithology 552.51
[1] Congo, Africa, history 967.2
[1] Basin, " 967.5
travel 916.75
Congregation, ecclesiastical polity 262.2
Congregational church 285.8
creed 238.5
orders in ministry 262.19
singing 783.9
Congregationalism sects 285.8
Congregationalists' lives 922.5
Congress of nations inter. law 341.1
Vienna, European history 940.8
international law 341.1
U. S. 328.73
Congressional debates, U. S. 328.732
directories, U. S. 328.738
documents, U. S. 328.734
Congreve, W. English drama 822.46
Conic sections analytical geom. 516.22
geometry 513.22
Conical projections descript. geom. 515.4
spherical 515.56
Conicoids analytical geometry 516.42
Conics analytical " 516.53
modern " 513.53
Coniferæ botany 585.2
Conium nervous depressants 615.786
Conjugate forms invariants 512.88
Conjugateæ botany 589.61
Conjugation English grammar 425.18
French " 445.18
German " 435.18
Greek " 485.18
Latin " 475.18
[3] other languages
Conjunctions etymology English 422.9
Greek 482.9
Latin 472.9
[3] other languages
solar system 523.23
syntax English 425.9
Greek 485.9
Latin 475.9
[3] other languages
Conjunctiva eye diseases 617.71
Conjunctive mood, etymology Greek 482.8
Latin 472.8
[3] other languages
syntax English 425.8
French 445.8
Greek 485.8
Latin 475.8
[3] other languages
Conjuring sorcery 133.4
Connaraceæ botany 583.31
[1] **Connaught, Ireland history 941.7**
[1] **Connecticut, U. S. history 974.6**
Connective tissue anatomy 611.76
diseases of 616.77
Conquest international law 341.3
Norman, English hist. 942.02
of Greece by Roman 938.08
Mexico by Spanish 972.02
Conrad I. German history 943.022

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Conrad II. German history 943.023
III. " " 943.024
IV. " " 943.025
Consanguinity, law 347.6
Conscience, Hendrik, Dutch fiction 839.3355
Conscience, ethics 171.6
Consciousness philosophy 126
Conscription military science 355
U. S. history 973.7414
Consecration 265.9
sermons 252.7
Conservation of energy physics 531.6
forces " 531.6
Conservatism
Conservatories, architecture 728.98
music 780.7
plants 716
Consols English finance 336.42
[3]Consonants language 421.3
Conspiracies criminal law 343
Constables 352.2
Constance, council of, 1414-8, Hussites 284.3
religious hist. 270.5
Constant de Rebecque, Fr. fiction 843.63
Constantine the Great, Byzant. hist. 949.501
[1]Constantinople history 949.61
Latin conquest 949.503
travels 914.961
Turkish conquest 949.504
Constantinopolitan creed, A. D. 381 238.1
Constants, earth, 525.1
electricity 537.51
moon 523.31
sun 523.71
Constellations, astronomy 523.89
Constipation pathology 616.34
Constitution and by-laws libr. econ. 023.1
English law 342.42
of '57 Mexican history 972.06
United States history 973.4
United States law 342.73
Constitutional conventions 342
diseases 616.9
history 342
law 342
monarchy, polit. sci. 321.7
Constrained attitude hygiene 613.65
Construction, arched 721.4
architectural 721
carpentry 694
masonry 693
Consular reports 382
systems international law 341.8
Consulate, 1st French history 944.046
Consuls 327
Consumption lung diseases 616.246
Consumptive assoc. coöperative 334.5
Contagious diseases pathology 616.91
pub. health, gen. 614.4
" " spec. 614.5
Contemplative personal religion 248
sisterhoods 271.96
theology 242
Contested elections legis. bodies 328
suffrage 324
Conti, Augusto Italian essays 854.83
Continence ethics 176.3
Continental heraldry 929.6
protestant sects 284
travels 914
Continents physical geography 551.41
Continued fever, simple, diseases 616.926
Contraband of war, international law 341.3
Contrabass tuba wind instruments 788.48
Contrabasso stringed " 787.4
Contract system labor of convicts 331.5
prisons 365
Contraction of muscles physiology 612.741
Contractions short hand 653.1
Contractors, liability of building 692.9
Contracts building 692.4
ethics 174.7
law 347.4
marriage family law 347.6
Contravariants, algebra 512.88
Control over administration 351.9
Controversial divinity 230
sermons 252.2
Contused wounds surgery 617.142
Contusions surgery 617.13
Conundrums amusements 793
[5] English literature 828
Convection heat 536.2
Convention ecclesiastical polity 262.4
1792-5, French hist. 944.043
Conventional forms decoration in relief 729.54
painted decoration 729.44
Convents 271
architecture 726.7
Conventual education of women 376.5
Conversation art of 374.1
ethics 177.2
self education 374.1
Conversion 248
revivals 269
Conveyances law 347.2
Conveyancing realty 347.2
Convict labor political economy 331.5
Convicts criminal law 343
discharged, reformatory assoc. 364
Conviviality social customs 394.1

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Convocation ecclesiastical polity 262.4
Convolvulaceæ botany 583.78
Convulsions diseases 616.845
puerperal disease 618.75
Cook books domestic economy 641
Cookery 641
Cooking schools 641
[1] Cook's Island history 996.2
travel 919.62
Coolies 326.2
Cooper, A. A. English essays 824.51
J. F. American fiction 813.24
Cooper Union, education 374.9
Cooperage manufactures 674
Coöperation library economy 020.1
political economy 334
Coöperative building associations 334.1
cataloging lib. admin. 025.3
insurance 334.3
Coördinates anal. geom. of space 516.34
geographical 525.4
mod. analytical geom. 516.51
plane anal. geom. 516.14
spherical astronomy 522.7
Coornhert, D. V. Dutch poetry 839.3126
Copaiba diuretics 615.761
[1] Copenhagen history 948.9
travel 914.89
Copepoda articulates 595.34
Copernican theory astronomy 521
Coplas de Mingo Revulgo Spanish satire 867.2
Coppée, F. É. J. French drama 842.88
" poetry 841.85
Copper coins money 332.41
drugs 615.256
engraving 762
implements archæology 571.34
inorganic chemistry 546.56
manufacture 671
metallic poisons 615.929
metallurgy 669.3
mineralogy 549.2
mining, prehist. archæology 571.31
ores economic geology 553.43
roofing 695.4
toxicology 615.929
Copperas disinfectant 614.488
Coptic church sects 281.7
[4] **language** 493.2
literature 893.2
Copts history 962
Copy-books elementary education 372.5
Copying processes writing 652
Copyists' occupation hygiene 613.65
Copyright international 341.5
Copyright law 347.7
publishing 655.6
Coquetry ethics 177.6
Coquillart, G., French poetry 841.23
Cor-Anglais wind instruments 788.7
Coral reefs geology 551.96
Corallines algæ 589.3
Corals zoölogy 593.6
Cord machine, physics 531.83
Cordials liquors 663.5
Cordilleras description 918
[1] Corea history 951.9
Coriarieæ botany 583.298
Corinthia ancient history 938.7
Corinthians I., epistles 227.2
II. " 227.3
[1] Cork, Ireland history 941.95
Corn agriculture 633
laws 337.5
trade polit. econ. 338.1
Cornaceæ botany 583.497
Cornea eye-diseases 617.71
Corneille, P. French drama 842.41
T. " " 842.43
Cornelius Agrippa, mystic philosophy 189.5
Cornell university 378.747
Cornet wind instruments 788.3
Cornices archit. constr. 721.27
architectural design 729.31
[4] Cornish language 491.67
pumps drainage of mines 622.53
Corns dermatology 616.54
[1] Cornwall, England history 942.37
Corollifloræ botany 583.5
Corona of sun 523.75
Coronarieæ botany 584.3
Coronation ceremonies 394.4
Coroners law
local government 352.9
Corporal punishment 371.55
Corporate industries 338.7
Corporation, city administration 352.003
Corporations 360
business 380
charitable 361
law of 347.1
mining 622
municipal 352
railroad 385
Corpulence
Corpuscular theory of light 535.1
Correction, houses of 364
architecture 725.63
Corrections astronomy 522.9
gravity experiments 526.73
of orbit astronomy 521.35

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Corrections perspective 515.66
Correlation of figures mod. geom. 513.57
forces 531.6
Correspondence college, self-educ. 374.8
" **English literature** **826**
letter writing 808.6
library admin. 025.1
logic 169
methods of teaching 371.39
modern geometry 513.57
natural theology 219
Swedenborgian 289.4
[1]Corrèze, France history 944.67
Corrosion 541.3
Corruption, public
Corsets hygiene 613.484
Corsica, Italy, ancient history 937.9
" modern " 945.9
Cortez, H. Mexican " 972.02
[1]Cortland County, N. Y. history 974.772
Coryza diseases 616.205
Cosmetics **adulterations** **614.354**
toilet 646
Cosmic dust astronomy 523.16
philosophy **metaphysics** 113
time chronology 529.77
Cosmogony metaphysics 113
natural theology 213
Cosmography **phys. geog.** **551.4**
Cosmology **metaphysics** 113
natural theology 213
Cossa, Pietro Italian drama 852.82
Cossacks Russian history 947
Cost building 692.5
Costa, I: da Dutch poetry 839.3155
Paolo Italian essays 854.71
S: Dutch drama 839.3233
[1]Costa Rica history 972.86
Costanzo, A. di Italian poetry 851.41
Coster hist. of printing 655.112
Costiveness diseases 616.34
Costume academic 378.29
ecclesiastical 247.7
hygiene **613.48**
military 355
Costumes **391**
[1]Côte d' Or, France history 944.42
Co-tenancy law 347.2
[1]Côtes du Nord, France history 944.12
Cottages, laborers' architecture 728.68
mountain " 728.7
seaside " 728.7
Cottoid fishes zoölogy 597.5
Cotton agriculture 633
clothing, hygiene 613.481
dyeing chem. technol. 667.3
Cotton manufactures 677
mills architecture 725.41
trade agricultural products 338.1
worm economic zoölogy 591.69
pests 632
Coughs and colds pathology 616.205
Council, ecclesiastical polity 262.4
general French local govt. 352.0442
history, religious **270**
municipal, Fr. local govt. 352.0448
œcumenical eccles. pol. 262.5
of State French admin. 354.4405
German " 354.4308
privy Eng. " 354.4204
Counsel, Christian, practical religion 241
Counter-irritation therapeutics 615.771
Counterfeiting, banks and money 332.9
law 343
Counterpoint music 781.4
Country homes **architecture** **728.6**
of poor, architecture 728.12
inns " 728.53
mortality public health 614.145
seats **architecture** **728.8**
County government **admin.** **352**
Eng. admin. 352.0421
histories, British **942**
U. S. **974–979**
Couplings railroad engineering 625.2
Courage ethics 179.6
Courier de Méré, P. L., French essays 844.63
[1]Courland, Russia history 947.4
Courses, belt walls 721.25
of reading reading and aids 028.3
Court baron English law 347.99
etiquette customs 395
fools " 394.2
houses architecture 725.15
of claims U. S. law 347.99
star chamber English law 347.99
supreme U. S. law 347.99
Courtesy ethics 177.1
Courts **administration** **351.94**
authority of 340
ecclesiastical 262.9
history of 347.99
martial 344
Courtship ethics 177.6
Cousin eclecticism 148
French philosophy 194.7
Cousins, marriage of law 347.6
Coutumes French law 349.442
Covariants higher algebra 512.88
Covenant meetings public worship 264.8
Scotch, creeds 238.5
Covenanters religious history 274.1

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Covenanters Scottish history 941.06
Covenants for titles law 347.2
religious creeds 238
Coventry plays English drama 822.12
Coverture law 347.9
Covetousness ethics 179.8
Cow-pox diseases 616.913
Cowardice ethics 179.6
Cowley, A. English poetry 821.46
Cowper, W. " " 821.65
Cows domestic animals 636.2
Cozzens, F. S. American humor 817.36
Crabs zoölogy 595.36
Cramp diseases 616.87
Cranberries 634
Cranes and elevators mill work 621.87
Craniidæ zoölogy 594.8
Craniology nat. hist. of man 573.7
Crannoges prehistoric dwellings 571.83
Crashaw, R. English poetry 821.42
[3] Crasis " language 421.2
Crassulaceæ botany 583.39
Craters seismology 551.21
Crates Greek philosophers 183.4
Crayfish zoölogy 595.37
Crayon drawing 741
Cream adulterations 614.324
Cream of Tartar adulterations 614.315
Creation evolution 575
metaphysics 113
natural theology 213
Creative power mental faculties 155
Creator doctrinal theology 231.1
Crébillon, C. P. J. de fils French fiction 843.55
P. J. de French drama 842.52
Credibility of the Scriptures 220.1
Credit and bonds insurance 368.8
institutes loan institutes 332.31
institutions administration 351.825
mobilier U. S. history 973.82
political economy 332.7
Credo sacred music 783.22
Credulity
Creeds Anglican ritual 264.037
dogmatic theology 238
public worship 264.5
Cremation of the dead customs 393.2
public health 614.62
Crematories " " 614.62
Creosoting building material 691.1
Cresting roofs 721.56
Crests heraldry 929.8
Cretaceous era geology 551.77
fossils, paleontology 560
Crete ancient history 939.18
[1] Crete modern history 949.98
Cretinism diseases 616.997
[1] Creuse, France history 944.68
Creutz, G. F. Swedish poetry 839.7145
Crevasses glaciers 551.31
Crewel work art needlework 746
Cribbage games 795
Cribbing student life 371.81
Cricket amusements 797
Crime and illiteracy public schools 379.21
law 343
[1] Crimea history 947.7
Crimean war English history 942.08
Russian " 947.07
Crimes and punishments law 343.2
Criminal classes reformatory assoc. 364
courts administration 351.945
law 343
international 341.4
trials, criminal law 343.1
Criminals, education of 371.97
juvenile 343
lives 923.4
Crinoidea zoölogy 593.91
Crises, commercial, political economy 332
Criterion ethics 171
Critical philosophy 142
Criticism art 701
biblical 220.7
dramatic 792
literary 801
musical 780.1
rhetoric 808
[1] Croatia history 943.94
[4] Croatian language 491.83
literature 891.83
Crocheting 746
Crockery pottery 738
Crocodiles 598.14
Crofton system prisons 365
Croisade contre les Albigeois Provençal lit. 849.122
[1] Cromarty, Scotland history 941.15
Cromlechs prehistoric arch. 571.94
Cromwell, O. English history 942.064
R. " " 942.065
Crop insurance 368.5
Crops agriculture 633
Croquet 796
Cross (G: Eliot) English fiction 823.88
Cross Christian symbol 247.9
legends concerning 398.2
Croton aqueduct water-works 628.14
oil vegetable poisons 615.93
Croup diseases 616.201
Crowne, J. English drama 822.43

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Crozier sacred furniture 247.6
Crucibles metallurgy 669
practical chem. 542.4
Cruciferæ botany 583.123
Crucifix sacred furniture 247.9
Cruelty to animals ethics 179.3
children " 179.2
Cruising boating 797
Crusade, children's, European history 940.4
Crusades European history 940.4
religious " 270.4
Crusenstolpe, M. J., Swedish fiction 839.7362
Crushing mining dangers 622.83
ore preparation 622.73
Crust of the earth geology 551.13
Crustacea palæontology 565.3
zoölogy 595.3
Cruz, R. de la, Spanish drama 862.43
San Juan de la Spanish miscel. 868.34
Cryptogamia 586
Cryptographic art religious art 246.5
Cryptography, secret writing 652
Crystalline aggregations crystallog. 548.2
limestone 552.46
Crystallography 548
Crystalloids 541.8
Ctenophora zoölogy 593.8
[1] Cuba history 972.91
travels 917.291
Cubature calculus 517.33
Cubics analytic geometry 516.59
modern " 513.59
Cucurbitaceæ botany 583.461
Culdees religious history 274.1
Cultivated plants landscape gard. 716
Cultivation, land rent for 333.5
Culture 301
and religion 261.6
self education 374
vocal 784.9
Cumberland, R: English drama 822.65
[1] England history 942.85
army of U. S. history 973.7416
Presbyterian, sect 285.3
Cuneiform inscriptions 492.1917
[4] **language 492.19**
Cupping therapeutics 615.811
Cups bronze age 571.37
stone " 571.27
Cupuliferæ botany 583.976
Curative electricity therapeutics 615.84
gymnastics " 615.82
Cures, miraculous miracles 231.7
therapeutics **615.85**
Curia regis 347.99
Curiosa books 099
Curiosity
Curling **amusements 796**
Currency banking 332.5
Currents, atmospheric, phys. geog. 551.51
oceanic 551.47
Curriculum 375
Cursores birds 598.5
Curtius Rufus, Quintus, Latin misc. 878.8
Curvature geology 551.82
of spine diseases 616.73
Curve tracing calculus 517.24
Curved surfaces analyt. geom. 516.4
theory of calculus 517.26
Curvembryeæ, botany 583.91
Curves, analytic geometry 516.2
geometry 513.2
of double curvat., mod. geom. 513.58
mod. analyt. " 516.58
plane, theory of calculus 517.24
Curvilinear motion physics 531.3
Custom houses architecture 725.14
Customs and duties tariff 337
manners 390
bad social hygiene 613.87
of war 399
student life 371.89
taxation 336.26
Cutaneous absorption physiology 612.384
diseases pathology 616.5
Cutlery manufacture 672
Cuts practical printing 655.32
Cutting of stone masonry 693.12
Cuttle fish 594.5
Cyanides chemical technology 661.7
narcotic poisons 615.963
Cyanogen organic chemistry 547.1
Cycadaceæ botany 585.9
Cyclades ancient history 939.15
[1] modern " 949.95
Cyclanthaceæ, botany 584.62
Cycloidal curves anal. geometry 516.26
Cyclones meteorology 551.55
Cyclopean remains Greek archit. 722.8
Cyclopedias, general 030
[2] special, see subject.
Cyclops zoölogy 595.31
Cylinder bridge engineering 624.4
solid geometry 513.43
Cylinders perspective 515.65
Cylindric perspective descrip. geom. 515.62
projections " " 515.57
Cylindrical vaults architecture 721.43
Cymbals musical instruments 789.2
Cymric group of languages 491.65
[4] **language 491.66**
literature 891.66

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Cynewulf Anglo Saxon poetry 829.4
Cynic philosophy 183.4
Cynicism
Cyperaceæ botany 584.84
Cypher writing 651
Cypriote architecture 722.3
Cyprus ancient history 939.37
[1] modern " 956.4
Cyrano de Bergerac, S. French fict. 843.46
Cyrenaic philosophy 183.5
Cyrenaica ancient history 939.75
Cysts diseases 616.993
Cytinaceæ botany 583.923
Da Caccia wind instruments 788.7
Dacia ancient history 939.82
Dacites lithology 552.26
Daguerreotype 772
Dahlstjerna, G. E. Swedish poetry 839.7135
[1] Dahna, Arabia history 953.7
[1] Dahomey, Africa history 966.8
Dairies architecture 728.96
Dairy 637
Dais architec. accessories 729.93
[1] Dakota, U. S. history 978.3
Dalin, Olof von Swedish poetry 839.7142
[1] Dalmatia, Germany 943.69
Daltonism eye diseases 617.75
Damascus ancient history 939.42
[1] modern " 956.9
travel 915.69
Damnation doctrinal theology 237.6
D'amore wind instruments 788.7
Dams mill engineering 621.29
mining " 622.56
river " 627.8
Dana, R. H. American poetry 811.27
Dance-form piano music 786.45
music modern " 786.46
of death emblems 246.5
Dances, war customs 399
Dancing amusements 793
customs 394.3
ethics 175.3
Danes, English history 942.01
in England and Normandy 948.02
Dangerous classes criminal law 343
Dangers and accidents, min. eng. 622.8
to workmen, political econ. 331.82
Daniel Bible 224.5
Daniel, S. English poetry 821.33
Danish architecture Romanesque 723.48
England English history 942.01
[4] **language** 439.8
literature 839.8
Dante Alighieri Italian poetry 851.15
[1] Dantzig history 943.12
Dantzig travel 914.312
Danube river travels 914.96
Danubian provinces history 949.6
travels 914.96
Daphnales botany 583.93
Darc, Jeanne French history 944.026
[1] Darfur, Egypt history 962.7
Darien expedition colonies 325.86
emigrants 325.241
foreign trade 382
isthmus history 986
ship canal engineering 626.9
Dark ages European history 940.1
Darwinism biology 575
Dass, Peder Danish poetry 839.8135
Dates chronology 902
Dati, Carlo Italian essays 854.54
Datisceæ botany 583.469
Dative case syntax Greek 485.5
Latin 475.5
[3] other languages
Daudet, Alphonse French fiction 843.88
[1] Dauphiny, France history 944.96
Daurat, Jean French poetry 841.31
Davanzati, Bernardo Italian essays 854.44
Davenant, Sir W. English drama 822.41
Davies, J. English poetry 821.35
Day of judgment doctrinal theology 236.9
schools intermed. education 373.2
sidereal and solar 529.1
time of hygiene 613.13
Days of the year chronology 529.2
Deacon, Deaconess eccl. polity 262.15
Dead animals air pollution 614.763
disposal of the pub. health 614.6
ministry of sacraments 265.8
[1] Sea description 915.69
transportation of, public health 614.63
treatment of the, customs 393
Deaf and dumb asylums, architecture 725.54
education of 371.92
institutions 362.4
Deafness diseases 617.8
Death after delivery obstetrics 618.79
and resurrection 236
biology 577.7
dance of, emblems 246.5
of fœtus, pregnancy 618.33
penalty, criminal law 343.2
physiology 612.67
rates public health 614.12
theology 236.1
Deaths public health 614.12
registers of 929.3
registration of, official 352.4
statistics 312

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Debates parliamentary 328
rhetoric 808.5
Debating societies self-culture 374.4
Debility diseases 616.986
Debt ethics 174.7
floating, pol. econ. 336.32
public " " 336.3
Debtor and creditor law 347.7
Decalogue Bible 222.16
Decay of rocks, lithology 552.7
Decidua pregnancy 618.35
Decimal system arithmetic 511.1
weights and measures 389
Decision of character ethics 170
Decisions of juries math. prob. 519.3
Declamation rhetoric 808.5
Declaration of Independence, U. S. 973.313
Savoy creeds 238.5
war internat. law 341.3
Declarations law 347.92
Declension of nouns English gram. 425.15
[3] other languages
Declination, variations of, astronomy 521.27
Decline, period of physiology 612.67
Decomposition, chemistry of 541.3
Decoration, architectural 729
day U. S. history 973.76
in relief architecture 729.5
interior 747
roof " 721.56
Decorations heraldry 929.7
Decorative art 740
Decorum ethics 177.1
Decrees, ecclesiastical polity 262.6
Decretals ecclesiastical polity 262.6
Roman Catholic church 282
Dedication church ordinances 265.9
sermons 252.7
Deduction by Bessel geodesy 526.47
Puissant " 526.48
mental faculties 153.6
Deductive logic 162
Deeds law 347.2
Deep boring mining eng. 622.24
sea dredging scientific voyages 508.3
life botany 581.92
zoölogy 591.92
sounding scientific voyages 508.3
Deer stalking sports 799
zoölogy 599.7
Defacements of books, library econ. 024.8
laws 021.8
Defamation law 347.5
Defecation physiology 612.36
Defects of body, congenital hygiene 613.91
Defence of religion apologetics 239
Defensive operations, military eng. 623.3
Definite integrals calculus 517.32
Definitions of orbits astronomy 521.31
Deflections of beams, girders, etc. 624.2
De Foe, D. English fiction 823.51
Deformities surgery 617.3
Degeneration evolution 575.7
Degrees, academic 378.2
medical public health 614.21
Deism natural theology 211
Deists apologetics 239.5
Deity doctrinal theology 231
Deken, Agatha Dutch fiction 839.3342
Delavigne, J. F. C. French drama 842.72
" poetry 841.72
[1] Delaware, U. S. history 975.1
[1] Co., N. Y. " 974.736
[1] Delhi history 954.5
travels 915.45
Delille, J. French poetry 841.54
Delineation of woman in art 396.7
literature 396.8
Delirium tremens pathology 616.861
Delisle's method astronomy 523.93
Deliveries and branches lib. econ. 022.1
Deltas physical geography 551.48
Deluge Genesis 222.11
geological agents 551.92
Delusions 133
religious
Demagogy politics 329
Demand and supply prices 338.5
wages 331.2
[1] Demerara history 988
travels 918.8
Democracy form of state 321.4
social 335.5
Democratic party 329.3
Democritus Greek philosophers 182.7
Demography statistics 311
Demonetization 332.47
Demoniac possession, doctrinal theol. 235
Demonology dogmatics 235
witchcraft 133.4
Demosthenes Greek oratory 885.6
Demulcents therapeutics 615.735
[1] Denbigh, Wales, history 942.93
Dendrology botany 582
Dengue diseases 619.216
Denials, special apologetics 239.9
Denina, Carlo, Italian essays 854.62
Denmark **administration 354.489**
antiquities 913.489
architecture 720.9489
botany 581.9489
colleges 378.489

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Denmark **constitutional law** **342.489**
education 370.9489
finance 336.489
geology 554.89
history 948.9
laws 349.489
maps 912.489
religious history 274.89
schools, public 379.489
statistics 314.89
travel 914.89
treaties 341.2489
zoölogy 591.9489
other topics see table 1.
Dennis, J. English drama 822.51
Denominations, Christian **280**
Density gravity 531.54
of earth, astronomy 525.12
Dental periosteum, diseases of 617.63
pulp, diseases of dentistry 617.61
Dentine, diseases of dentistry 617.62
Dentistry **617.6**
Dentists' registration, State control of 614.24
Denudation **geology** **551.3**
Deodorants external therapeutics 615.777
Deodorization of sewage 628.32
Deodorizers **contagious diseases** **614.482**
Departmental commission French local government 352.0443
Departments **French local gov.** **352.0441**
library admin. **025**
U. S. government **353.04**
Deposition **geology** **551.3**
Depositions evidence 347.94
Deposits, thick, working of mining 622.35
Depravity natural theology 216
pessimism 149.6
total, theology 233.2
Depressants, circulatory, therapeutics 615.716
nervous " 615.786
Depressions, industrial polit. econ. 338
Depth and alignment of sewers 628.218
De Quincey, T. English essays 824.81
Derangement, mental **132**
[1] Derby, England history 942.51
Derivation of words, com. philol. **412**
[3] **Eng. language** **422**
Dermal respiration zoölogy 591.122
Dermatology anatomy 611.77
animals 591.49
pathology **616.5**
physiology 612.79
Dermoskeleton, comparat. anatomy 591.49
descriptive anatomy 591.79
Deroulède, P., French poetry 841.86
Derricks engineering 621.86
Dervishes **297**
Désaugiers, M. A. M., French poetry 841.65
Descartes empiricism 144
French philosophy 194.1
Descent **genealogy** **929**
of man evolution 575.8
rules of law 347.6
Deschamps, Émile French poetry 841.73
Eustache, " satire 847.13
Desclot, Bernardo Catalan misc. 849.9812
Description **travel** **910**
Descriptive anatomy **botany** **581.7**
man **611**
zoölogy **591.7**
astronomy **523**
geometry **515**
Deserts physical geography 551.58
Deshoulières, A. French poetry 841.46
Design, architectural **729**
arguments from **239**
arts of **740**
Designing decoration 745
Designs engineering 620.04
mosaic arch. **729.7**
Desmidiaceæ algæ 589.61
Desperriers, B. French fiction 843.32
Desportes, P. " poetry 841.38
Despotism form of state 321.6
Despots Italian history 945.05
Despourrins, C. Provençal poetry 849.142
Destouches, P. N. French drama 842.53
Detached city houses **architec.** **728.3**
Detection of fire protection of life 614.842
Detectives 352.2
Determinants algebra 512.83
Determination of earth's figure **526.1**
orbits astron. **521.3**
Determinations, astron. **geodesy** **526.6**
Determinative mineralogy 549.1
Determinism doctrinal theology 234.9
philosophy 159
Detritus geology 552.51
[1] Detroit, Mich., history 977.434
travels 917.7434
Deuteronomy Bible 222.15
[4] **Deutsch, Platt** **language** **439.4**
literature **839.4**
[1] Deux Sèvres, France history 944.62
Developing interest in libraries 021.7
method of teaching 371.34
Development
incomplete, deformities **617.31**
intellectual, and church 261.5
nutrition 591.135
of embryo **abnormal** **617.3**
embryology **591.33**

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Development of embryo physiology 612.64
germ-cells zoölogy 591.172
sperm-cells " 591.171
period of full, phys. **612.66**
physiology **612.6**
projections, geodesy 526.83
theory apologetics 239.8
evolution 575.6
Deviation of falling bodies astron. 525.37
the compass, magnetism 538.7
Devices, special, perspective 515.68
Devil, personal theology 235
worship 290
Devils dogmatics 235
[1] Devon, England history 942.35
Devonian age geology 551.74
fossils, paleontology **560**
Devotional exercises prayer 264.1
sermons 252.4
theology **240**
Dew meteorology 551.57
Dextrose chem. technology 664.1
Diabase lithology 552.34
Diabetes diseases 616.63
Diabolism doctrine 235
Diagnosis of pregnancy 618.22
pathology **616.07**
Diagram of work physics 531.42
Dial telegraphs communication 654.3
Dialectics **logic** **160**
[3] **Dialects** **English language** **427**
literature
Dialing 529.78
Dialogues entertainments 793
Dials chronology 529.78
Dialysis qualitative analysis 544.5
Diamagnetism, magnetism 538.4
Diameter of earth 525.13
Diamonds economic geology 553.8
mineralogy 549.2
Diapensiaceæ, botany 583.65
Diaphoretics therapeutics 615.743
Diaphragm anatomy 611.26
[1] Diarbekr, Asiatic Turkey history 956.6
Diaries **biography** **920**
Diarrhœa, epidemic diseases 616.934
pathology 616.34
public health 614.517
Diarrhœal diseases **pub. health** **614.513**
Diastase materia medica 615.35
Diatessaron harmonies of gospels 226.1
Diathermancy, heat 536.35
Diatomaceous earth, petrography 552.57
Diatoms 589.61
Diazo-bodies organic chemistry 547.8
Dice ethics 175.5
Dice games 795
Dickens, C: English fiction 823.83
Dicotyledonæ **botany** **583**
Dictatorship 321.6
[3] **Dictionaries** **English language** **423**
[5] of quotations, Eng. lit. 828
[2] special, see subject.
Dictionary catalogs **019**
library admin. 025.3
Didactic poetry American poetry 811.05
English " 821.05
theology 241
Diderot French philosophers 194.5
Didymium metals 546.64
Die sinking 736
Diet, circle German local gov. 352.0433
hygiene **613.2**
Dietaries hygiene 613.21
Dietetic diseases pathology 616.39
Dietetics **hygiene** **613.2**
Differences, finite calculus 517.6
of triangles trigonom. 514.8
Differential calculus **517.2**
equations calculus 517.38
variations astronomy 522.74
Differentiation evolution 575.2
Diffraction acoustics 534.2
optics 535.4
Diffuse affections of skin 616.51
Diffusion absorption physiology 612.383
Digestion, **aids to therapeutics** **615.734**
animals 591.132
man **612.3**
plants 581.132
Digestive secretion in animals 591.143
system, anatomy **611.3**
diseases of **616.3**
drugs acting on **615.73**
surg. operations 617.43
Digests of cases, American law **345.5**
Eng. " 346.5
statutes **Am.** " **345.3**
Eng. " 346.3
Digitalis cerebro-cardiac poisons 615.99
diuretics 615.761
materia medica 615.32381
stimulants 615.711
Digits, extra deformities 617.36
Dignities heraldry **929.7**
Dikes geology 551.88
river and harbor eng. 627.4
Dilatation gases 533.2
of os and cervix, obstet. operat. 618.84
Diligence ethics 179.9
Dilleniaceæ botany 583.112
Diluvial deposits geology 551.35

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Dimension, fourth geometry 513.8
stone foundations 721.11
Dimensions of earth 525.13
sun 523.71
[3] Diminutives, Latin etymology 472.5
Dimorphism crystallography 548.3
Dining domestic economy 643
Dinners " " 643
Dinosauria reptiles 598.19
Diocesan schools education 377.4
Diocese ecclesiastical polity 262.3
Diodorus Greek philosophers 183.6
Diogenes " " 183.4
Diophantine analysis algebra 512.23
Dioptrics optics 535.3
Diorite lithology 552.36
Dioscoreaceæ, botany 584.27
Dip of rocks geology 551.85
Diphenyl group organic chemistry 547.27
Diphtheria diseases 616.931
public health 614.512
[3] Diphthongs English language 421.2
Diplomacy 327
international law 341.7
Diplomas school organization 371.29
Diplomatic hist. Amer. civil war 973.72
[3] Diplomatics English language 421.7
paleography 417
Dipropargyl organic chem. 547.24
Dipsaceæ botany 583.541
Dipsomania mental derangements 132.7
temperance 178
Diptera insects 595.77
Dipterocarpeæ botany 583.167
Direct probabilities mathematics 519.1
taxation, political economy 336.21
Direction, calculus of, analyt. geom. 516.8
Directions, method of, geodesy 526.54
Directories 910
Directors library government 023.3
Directory, 1795–99, French history 944.045
Disabilities, political suffrage 324.1
Disability, inherited mental hygiene 613.92
Disasters at sea adventures 910.4
navigation 656
Discharge of sewage into sea 628.39
wastes into streams 628.541
water engineering 627.1
Disciples of Christ sects 289.2
Disciplinary power administration 351.92
Discipline, civil service 351.4
college education 371.5
ecclesiastical polity 262.9
education 371.5
mental education 370.1
military military science 355
Discipline, prison 365
Discomycetes botany 589.233
Discophora zoölogy 593.77
Discount banking 332.8
Discounts library book-buying 025.3
Discourses theology 252
[2] see subject
Discoverers' lives 923.9
Discoveries geography 910
science, history 509
useful arts 608
Discovery, art of
Discriminants, algebra 512.85
Discussion, freedom of free speech 323
Disease germs, medicine 616.01
Diseased meat, poisons 615.94
Diseases 616
animals veterinary med. 619
zoölogy 591.2
contag., gen., pub. health 614.4
of domes. animals 614.91
spec., pub. health 614.5
eye surgery 617.7
of pregnancy 618.3
teeth dentistry 617.6
plants 581.21
classification of, nosology 616.01
commun. to man, animal hyg. 614.93
pub. health 614.56
inherited hygiene 613.93
mental, medicine 616.8
mind and body 132
of children medicine 618.9
ear surgery 617.8
women pathology 618
puerperal obstetrics 618.7
Disfranchisement suffrage 324.1
Dishes pottery 738
Disinfectants, contagious dis. 614.482
external therapeutics 615.777
Disinfection, contagious diseases 614.48
of sewage 628.32
the dead, pub. health 614.64
Disintegration geol. agents 551.9
Dislocations geology 551.87
surgery 617.16
Disorders of vision eye diseases 617.75
Dispensaries institutions 362.1
pharmacy 615.4
Dispensatories, materia medica 615.12
Dispersion optics 535.4
Displacement of molecules, phys. 539.5
parts deformities 617.38
Display in printing 655.26
social ethics 177.4
Disposal of sewage, san. eng. 628.3

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Disposal of the dead, pub. health 614.6
wastes 628.54
Disproportionate growth, deformities 617.37
Disputations religion 204
' see subject
Disraeli, B. English fiction 823.86
Dissection anatomy, animal 591.7
human 611.07
ethics 179.4
laws state control of 614.22
Dissenters English religious hist. 274.2
Dissipation ethics 178
Distance of earth from sun 525.15
moon 523.31
stars 523.81
Distances, measurement, surveying 526.92
Distemper painting 698.2
Distillation chemical technology 668.7
practical chemistry 542.4
Distilled beverages adulterations 614.345
chem. tech. 663.5
Distilleries architecture 725.42
Distilling air pollution 614.732
Distortions and corrections, geom. 515.66
congenital surgery 617.39
Distributing machines printing 655.28
Distribution, arch. elevation 729.12
plan 729.22
of animals 591.9
plants 581.9
time chronology 529.76
political economy 338
statical electricity 537.22
tide astronomy 525.63
wealth, political economy 331
Distributive co-operation 334.5
laws, solar system 523.21
[1] District of Columbia, U. S., history 975.3
court reports, " 345.41
Dithyrambics Greek lyrics 884
Diuretics therapeutics 615.761
Diurnal inequality of tides 525.63
Divination magic 133.3
Divine attributes doctrinal theol. 231.4
healing 265.8
humanity Christology 232.8
justice 231.8
Providence doctrinal theol. 231.5
natural " 214
right of kings pol. sci. 321.6
service public worship 264
Diving bells pneumatics 533.86
submarine 627
Divining rod 622.12
Divinity schools architecture 727.4
theology 207
Divinity theology 230
Divorce ethics 173.1
law 347.6
public health 614.18
Dochmii Greek prosody 486.3
Dock buildings architecture 725.34
Docks harbor engineering 627.3
Dockyards " " 627.3
Doctors' lives 926.1
Doctrinal sermons 252.3
theology 230
Doctrines, heresies, religious hist. 273
Documents, public 328
library economy 025.8
Dog fighting ethics 175.6
taxation political economy 336.27
Dogma 230
Dogmas religious history 273
Dogmatic sermons 252.3
Dogmatics 230
Dogs, diseases of comparative med. 619.7
domestic animals 636.7
zoölogy 599.7
Dolerite lithology 552.35
Dolmens prehist. arch. 571.94
Dolomite lithology 552.55
Domain, eminent law 347.2
state finance 336.1
Domes architectural design 729.34
architecture 721.46
observatories astron. 522.12
roofs 721.57
Domesday book Eng. finance 336.42
Domestic animals 636
infect. diseases of 614.91
architecture 728
ashes and garb., san. eng. 628.44
duties ethics 173
economy 640
education 376.3
mammals 599.7
medicine 616.02
relations law 347.6
political sci. 323
service 647
trade 381
use and waste of water 628.17
worship, family prayer 249
Domestication, effect on animals and plants 575.2
Domicile law 347.1
Dominicans monastic orders 271.2
Dominoes games 795
Donatists sects 281.4
[1] Donegal, Ireland history 941.63
[1] Dongola, Egypt " 962.5

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Doni, Anton Francesco, Italian fiction 853.42
Donkeys domestic animals 636.1
Donne, J. English satire 827.35
Doors arch. construction 721.8
" design 729.38
[1] Dordogne, France history 944.72
Dorian migration Greek history 938.01
Doric order architecture 729.32
Doris ancient history 938.3
Dormer windows arch. construction 721.55
design 729.35
Dormitories architecture 727.2
student life 371.87
[1] Dorset, England history 942.33
Dort confession 238.42
synod of 284.2
Douay Bible Eng. version 220.52
Double bass stringed instruments 787.4
bassoon, wind " 788.8
curvature, curves of geom. 513.58
mod. anal." 516.58
of spine 616.73
curved lines, descriptive " 515.13
surfaces " " 515.15
flowers floriculture 716.2
morphology 581.4
refraction optics 535.5
standard coins, money 332.42
stars astronomy 523.84
[1] Doubs, France history 944.46
Doubt metaphysics 121
Douche baths hygiene 613.44
Douglas, G. English poetry 821.24
Dovizi, Bernardo Italian drama 852.32
Dower law 347.6
[1] Down, Ireland history 941.65
Drachmann, Holger Danish fiction 839.8366
Draco's code Grecian history 938.01
Dragon flies insects 595.73
Drainage agriculture 631
engineering 627.5
house 628.6
land 627.5
natural min. eng. 622.52
of cities 628.2
mines 622.5
sewage farms 628.367
public health 614.77
[5] **Drama, English literature 822**
French " 842
German " 832
Greek " 882
Italian " 852
Latin " 872
miracle plays Eng. lit. 822.1
gen. hist. 809.2
Drama, miracle plays religion 244
moral influence of ethics 175.2
sacred 244
Spanish literature . 862
Dramas Amer. civil war 973.792
Dramatic amusements 792
art theatre 792
biography actors 927.92
[3] Eng. authors 928.22
composition 808.2
criticism 792
history 792
music 782
orchestral music 785.2
Dramatists' lives, Eng. 928.22
Drastics cathartics 615.7325
Draughts games 794
Dravidian architecture 722.4
language 494
literature 894
Drawbridges engineering 624.8
Drawing 740
architectural 744
books 740
elementary education 372.5
engineering 744
mechanical 744
room amusements 793
topographical 526.98
Drawings, architectural 729
detail building 692.2
general " 692.1
linear 741
prehistoric arch. 571.71
Drayton, M. English poetry 821.34
Dream books folk-lore 398.7
Dreams 135
Dredging engineering 627.7
machinery 627.7
scientific voyages 508.3
[1] Dresden history 943.21
travels 914.321
Dress costume 391
ecclesiastical 247.7
ethics 177.4
Dressing hair 391.5
of stone masonry 693.12
ore mining engineering 622.7
works " " 622.79
Dressmaking 646
Drift remains prehist. archæol. 571.11
Drifting and tunneling mining 622.26
Drill military science 355
Drilling mech. engineering 621.95
mining " 622.23
Drink chem. analysis 543.1

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Drinking, social ethics 178.3
usages customs 394.1
Drinks, cold hygiene 613.36
hot " 613.37
intoxicating ethics 178.1
mixing of, manufactures 663.8
Drives landscape gardening 713
Driving 798
[1] Drôme, France history 944.98
Dropsy diseases 616
Droseraceæ botany 583.393
Droughts meteorology 551.57
Drowning protection of life 614.81
Drugs 615.1
adulteration of 614.35
analytic chemistry 543.4
economic botany 581.63
intoxicating ethics 178.8
Druids 299.16
Drum musical instruments 789.1
Drummond, W. English poetry 821.36
Drummond light 665.7
Drums mining engineering 622.67
Drunkenness criminal law 343
Druses religion 297
Dry docks engineering 627.3
goods trade production 338.4
method qualitative anal. 544.2
quantitative " 545.4
point engraving 767
rot building 691.1
Dryden, J: English poetry 821.48
Drying practical printing 655.33
Dualism ontology 111
Parsee heresies 273.2
Parseeism 295
Duality mod. geometry 513.51
Du Bellay, J. French poetry 841.32
[1] Dublin, Ireland history 941.83
travel 914.183
university 378.415
Ducis, J. F. French drama 842.61
Duck-billed platypus zoölogy 599.1
Duck roofing building 695.8
Ductility molecular physics 539.52
Ducts air, ventilation 697.9
kidney anatomy 611.61
" diseases 616.61
Dudevant, A. L. A. D. French fict. 843.82
Duelling ancient law 340.3
criminal " 343
customs 394.8
ethics 179.7
Duets vocal music 784.82
Du Fail, Noël, French fiction 843.34
Dufresny, C. R. " drama 842.47
[1] Dukes Co., Mass. history 974.49
Dulcimer music 787.9
Dumas, A. fils drama 842.84
A. D., the elder Fr. " 842.77
fiction 843.76
Dumb asylums 362.4
bells gymnastics 613.71
education of 371.92
[1] Dumbarton, Scotland history 941.37
[1] Dumfries, " " 941.48
Dunbar, W: English poetry 821.23
[1] Dunbarton Scotland 941.37
Dunes 551.33
Dunkers Baptists 286
Dunlap, W: American drama 812.22
Duns Scotus medieval philosophers 189.4
Duodecimals arithmetic 511.1
Duodenum diseases 616.34
Duplex telegraphs communication 654.2
Duplicates, sale of library economy 025.2
Duplication, apparent deformities 617.34
Dupont, Pierre French poetry 841.82
[1] Durango, Mexico history 972.1
D'Urfey, T. English humor 827.44
[1] Durham, England history 942.81
Dust, air pollution 614.71
cosmic descriptive astronomy 523.16
inhalation of hyg. of employ. 613.63
prevention of, in factories 628.511
[1] Dutch East Indies history 991
[1] Guiana " 988
travels 918.8
[4] **language 439.3**
literature 839.3
painting 759.9
Reformed church 284.1
in America 285.7
republic history 949.2
Dutchess Co., N. Y. history 974.733
Duties and customs, tariff 337
moral ethics 170
of children ethics 173.6
citizens " 172.1
husbands and wives " 173.3
parents " 173.5
public officers " 172.2
servants " 173.8
domestic econ. 647
public, sermons 252.6
remitted library aid 021.9
social ethics 177
stamp, political economy 336.27
Duty free import. for colleges 337.8
religion 233.4
Du Vair, Guillaume French essays 844.41
Dwarfs biology 573.8

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Dwelling houses **architecture** **728**
hygiene 613.51
sanitation 628.6
Dwellings **prehistoric** **571.8**
Dwight, Timothy, American poetry 811.22
Dyadic arithmetic 511.1
[1] Dyaks history 991.1
Dyeing **chem. technology** **667.2**
Dyes, aniline " " 667.2
Dykes engineering 627.4
geology **551**
Dynamical electricity **537.5**
geology **551**
Dynamics **531.3**
celestial **521.1**
electro 537.6
Dynamite chemical technology 662.2
storage protec. of life 614.833
Dynamo-machines, engineering 621.31
Dynamometer 531.21
Dynamos electro dynamics 537.83
Dysentery diseases 616.935
public health 614.516
Dyspepsia dietetic diseases 616.39
dis. of digestive sys. 616.33
Ear anatomy 611.85
deaf and dumb asylums 362.4
arch. 725.54
diseases surgery 617.8
hospitals 362.1
architecture 725.51
physics 534.7
physiology 612.85
psychology 152.2
Early Christian architecture 723.1
Christians history 270.1
education, elementary **372**
English Text Society 820.6
[3] **forms of English language** **427.01**
Greek philosophy **182**
institutions political science 321.1
printed books 093
rising hygiene 613.79
Earth, astronomy **525**
burial of dead customs 393.1
pub. health 614.611
closet system sanitation 628.43
figure of **526.1**
internal heat of geology 551.12
physical geology **551**
rotation of astronomy 525.35
structure of, physical geol. **551.1**
surface features **551.4**
Earthenware chemical technology 666.6
Earthquakes 551.22
Earth's attraction of moon 523.33
Earth's figure **526.1**
surface, irregularities of 526.64
Earthwork engineering
Earthworks fortifications 623.1
Easements law 347.2
East and West, religious schism 270.3
India Company 382
[1] **Indian archipela go, history** **991**
languages **491.4**
[1] Indies " 954
[1] **Dutch** " **991**
[1] Prussia " 943.11
travels 914.311
River bridge engineering 624.5
[1] Russia history 947.8
travels 914.78
[1] Turkestan history 951.6
travels 915.16
Easter Anglican calendar 264.031
chronology 529.6
music 783.28
Eastern churches **281.5**
[1] empire 949.5
Pacific ocean phys. geog. 551.466
question, Turkish history 949.6
states U. S. history **974**
Eating customs 394.1
diet, hygiene **613.2**
Ebenaceæ botany 583.685
Ebenales " **583.68**
Ebers, G: German fiction 833.86
Eccentricity in manners ethics 177
of orbit of earth 525.33
seasons **525.52**
Eccentrics, lives of 920.8
machinery 621.85
Ecclesiastes Bible 223.8
Ecclesiastical antiquities 209
architecture **726**
art ecclesiology **246**
biography **922**
calendar chronology 529.6
ceremonies customs 394.4
costume **247**
councils 262.4
courts 348
fasts person. relig. 248
public worship **264**
feasts. **264**
furniture. ecclesiol. **247**
history **270**
Latin, modern philol. 479
law canon law 348
legends 209
for special topics see topic
music **783**

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Ecclesiastical polity 262
statistics 209
trials 262.9
vestments, eccles. 247.7
Ecclesiastics lives biography 922
Ecclesiasticus Bible 229.4
Ecclesiology church 261
symbolism 246
Echinoderms, paleontology 563.9
zoölogy 593.9
Echinoidea " 593.95
Eclampsia diseases 616.845
Eclectic medicine 615.5
philosophy 148
Eclipses, finding longitude by 525.48
of moon 523.38
sun 523.78
theory 521.8
Ecliptic, inclination of equator to 525.51
plane of astronomy 525.32
solar system 523.26
Economic botany 581.6
chemistry, chem. tech. 660
geology 553
zoölogy 591.6
Economics political economy 330
Economy, domestic 640
ethics 174
library 020
political 330
Ecstasy religion 248
Ecstatics mental derangements 132.5
Ectopic gestation, diseases of women 618.31
Ectozoa animal parasites 616.968
[1] Ecuador history 986
travels 918.6
Ecumenical council eccles. polity 262.5
religious hist. 270.2
Eczema dermatology 616.52
Eddas Norse literature 839.6
Eden original home of man 572.4
Edentata mammals 599.3
Edgeworth, M. English fiction 823.72
Edict of Nantes Huguenot hist. 284.5
[1] Edinburgh, Scotland history 941.44
travels 914.144
university 378.41
Editions, choice of reading and aids 028.2
Editorial work 070
Edom ancient history 939.46
Education 370
and the church 261.5
" " " 377.8
in relation to labor 331.85
industrial systems 371.42
useful arts 607
Education of voters 324
women 376
young 372
public administration 351.851
self 374
systems of 371.4
useful arts 607
[2] special, see subject.
Educational buildings architect. 727
ethics 171.7
reports, public 379
sermons 252.5
Educator, library as 021.2
Educators' lives 923.7
Edward I. English history 942.035
II. 942.036
III. 942.037
IV. 942.044
V. 942.045
VI. 942.053
Edwards, J. American philosophers 191.1
Effect and cause metaphysics 122
perspective arch. design 729.15
Effen, J. van Dutch essays 839.344
Effigies, monumental 718
Effluvium nuisances san. eng. 628.52
Efflux hydraulics 532.56
Egg-shape of sewers 628.224
Eggleston, Edward, American fiction 813.42
Eggs oölogy 598.2
Egina marbles, anc. sculpt. 733
Egoism ethics 171.9
Egypt administration 354.62
antiquities 913.32
architecture 722.2
art 709.32
botany 581.962
finance 336.62
geology 556.2
hieroglyphics 493.1
history, ancient 932
modern 962
[4] **language, old** 493.1
maps 912.62
mythology 299.31
obelisks monuments 718
philosophers 181.2
pyramids antiquities 913.32
religion 299.31
schools 379.62
[1] Soudan history 962.6
travels 916.26
statistics 316.2
travel 916.2
treaties 341.262
other topics see table 1.

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Egyptology antiquities 913.32
Ehrensvärd, T. C. Gyllembourg-Danish fiction 839.8361
Eichendorff, J., German poetry 831.72
Eilschov, F. K. Danish miscellany 839.8843
Ejectment law 347.2
Elæagnaceæ botany 583.935
Elasmobranchii fishes 597.3
Elasticity physics 539.3
Elateridæ zoölogy 595.76
Elatineæ botany 583.161
Elci, A. M. d' Italian satire 857.66
Elders ecclesiastical polity 262.15
Eleatic Greek philosophers 182.3
Election doctrinal theology 234.9
frauds, U. S. 324.73
sermons 252.6
Elections, city administration 352.004
political science 324
U. S. law 324.73
Elective franchise 324
system education 375.04
Electoral commission U. S. history 973.82
system polit. science 321.8
Electric apparatus, inspection protection of life 614.836
engineering 621.3
heating building 697.7
light libraries 022.7
mech. eng. 621.32
physics 537.83
manipulation chemistry 542.8
measurements 537.7
measuring of temperature 536.53
phenom. of muscles, physiol. 612.743
physics 537.4
railways engineering 621.33
shock surgery 617.12
signals 537.88
telegraph, communication 654
Electricity 537
applied 537.8
hygiene 613.16
therapeutics 615.84
Electro-ballistic machines projectiles 623.4
biology animal magnetism 134
blasting mining 622.23
chronograph, astronomy 522.52
dynamics 537.6
magnetism 538.3
metallurgy 537.85
motors machines 621.31
science 537.83
physiology, animal magnetism 134
plating metallurgy 537.85
Electrokinetics dynamical 537.5
Electrolysis **quantitative analysis** 545.3
Electrometers 537.25
Electrostatics statical 537.2
Electrotyping printing 655.22
Eleemosynary institutions 361
[5]Elegiac poetry, English lit 821.04
Greek " 884
Latin " 874
Elementary education 372
forms arch. design 729.3
[3] readers Eng. language 428.6
theory of music 781.2
Elements, chemical chem. tech. 661.1
chemistry 546
required architec. design 729.21
Elephants mammals 599.6
Eleusinian mysteries Greek antiq. 913.38
mythol. 292
Elevated ground hygiene 613.12
railroad, engineering 625.4
stations architect. 725.318
temperature hygiene 613.64
ways public health 614.782
Elevation architec. design 729.1
Elevations meteorology 551.53
Elevators, grain architecture 725.36
mech. engineering 621.87
[1]Elgin, Scotland history 941.23
marbles 733
Elian philosophers Greek philos. 183.7
Eliesen, Povel, Danish miscellany 839.8822
Eliminants algebra 512.85
Eliot, George English fiction 823.88
Elis ancient history 938.8
Elixir of life alchemy 540.1
Elizabeth, Queen English history 942.055
Elizabethan persecutions " 272.7
Ellipse analytical geometry 516.23
geometry 513.23
Ellipsis English language 425.3
[3] other languages
Ellipsoid analytical geometry 516.43
Ellipsoidal figure geodesy 526.16
Ellipsoids, potentials of 526.11
Elliptic functions calculus 517.36
Ellipticity, law of geodesy 526.13
[1]Elmira, N. Y. history 974.779
Elocution 808.5
vocal culture 784.9
Eloquence 808.5
[5] **English oratory** 825
Elves folk-lore 398.4
Elzevir editions rare printing 094
Emanation metaphysics 129.5
Emancipation of slaves 326.8
U. S. history 973.714

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Emancipation of woman 396.1
Embalming of the dead customs 393.3
pub. health 614.64
Embankments, river engineering 627.4
Embargo 344
of 1808–12 U. S. history 973.48
Embassadors international law 341.7
political science 327
Emblematic art ecclesiology 246.5
Emblems " 246
Embolism of pulmonary artery 616.247
Embossing, book library economy 025.2
Embroidery 746
Embryo, development of, physiology 612.64
zoölogy 591.33
Embryology animals 591.3
botany 581.3
Embryotomy obstetric operations 618.83
Emergencies surgery 617.1
Emerson, R. W. Am. essays 814.36
philosophers 191.3
transcendentalism 141
Emery economic geology 553.65
Emetics therapeutics 615.731
Emigrants political science 325.2
Emigration " " 325
[1] Emilia, Italy, history 945.4
Eminent domain law 347.2
Emollients external therapeutics 615.776
internal " 615.735
Emotions psychology 157
Empedocles Greek philosphers 182.5
Emperor German empire 354.4305
Emperors' lives 923.1
Empetraceæ botany 583.984
Emphysema lung diseases 616.248
Empire, Eastern history 949.5
French 1st, " 944.05
2d, " 944.07
German gov. 354.4303
Roman 937.06
Western, fall of 937.09
Empirical medicines adulterations 614.353
philosophy 144
Empiricism in medicine quackery 614.26
Employers and employed, ethics 174.8
polit. econ. 331.1
Employment, hygiene 613.6
of time ethics 179.9
women labor 331.4
customs 396.5
Empresses' lives 923.1
Emulation ethics 179
[3] Enallage English syntax 425.2
Enamel arch. decoration 729.65
chem. technology 666.2
Enamel **painting 751**
sacred ornamentation 247.4
Encaustic painting 751
Enclosures of doors and windows 721.86
Encyclical letters eccles. polity 262.8
Encyclopedias, general 030
[2] special, see subject
Encyclopedists, French apologetics 239.6
lives 920.3
Endemic diseases 616
Endemics medical geography 614.42
Endless punishment future state 237.7
Endosmose liquids 532.7
Endowed libraries 027.4
schools education 373
vs. public schools 379.3
Endowment of research colleges 378.3
Enemeta, nutritive hygiene 613.23
Energy, conservation of 531.6
Engelbrektsdatter, D., Danish poet. 839.8136
Engine houses architecture 725.19
Engineering, civil 620
locomotive 621.13
mechanical 621
topographical 526.9
Engineers lives 926.2
Engines 621
England, administration 354.42
antiquities 913.42
architecture 720.942
army 354.426
bank of 332.15
biography 920.042
botany 581.942
church 283
colleges education 378.42
constitution 342.42
education 370.942
finance 336.42
geology 554.2
government pol. sci. 323
history 942
[3] **language 420**
law 346
libraries 027.042
literature 820
local government 352.042
maps 912.42
navy 354.427
painting 759.2
philosophers 192
philosophers' lives 921.2
private law 347
religious history 274.2
Romanesque architecture 723.42
schools, public 379.42

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

England sculpture 735
slavery 326
societies, general 062
statistics 314.2
travel 914.2
treaties 341.242
universities education 378.42
zoölogy 591.942
English composition 808
cyclopedias 032
Deists apologetics 239.5
ephemerides 528.2
newspapers 072
periodicals, general 052
[3] **philology** 420
socialism 335.1
Engravers lives 927.6
occupation hygiene 613.65
Engraving 760
books of 769
of seals and gems 736
Engravings, catalogues of 016.76
collections " 769
Enharmonic organ music 786.9
Enigmas amusements 793
[5] **English literature** 828
Enlistment army 355
Ennius Latin drama 872.4
Enoch, Book of 229
Enrollment school organization 371.21
Ensigns flags 929.9
Ensilage agriculture 633
Entail law 347.2
Enteric fever diseases 616.927
public health 614.511
Enteropneusta zoölogy 593.99
[5] **Entertaining collections, Eng. lit.** 828
Entertainments, licenses for 352.8
public 791
Enthusiasm psychology 157
religious 269
Enthymeme logic 166
Entomology zoölogy 595.7
Entomophthoreæ botany 589.229
Entomostraca zoölogy 595.31
Entozoa parasitic diseases 616.962
zoölogy 595.1
Entropy physics 536.7
Enunciation elocution 808.5
Envallsson, K: Swedish drama 839.7254
Environment evolution 575.3
influence of, therap. 615.56
on man 573.4
mental characteris. 136.2
Envy ethics 179.8
Enzina, J. del Spanish drama 862.21
Eocene fossils paleontology 560
period geology 551.781
Eolian harp 787.9
Epacrideæ botany 583.64
Ephemerides 528
Ephesians Bible 227.5
Ephesus, first council of, relig. 270.23
history ancient 939.23
[1] modern 956.2
Epic dramatic music 782.2
painting 753
[5] poetry English literature 821.03
Greek 883
Latin 873
Epicharmus Greek drama 882.5
Epictetus " philosophers 188.7
Epicurean philosophy 187
Epidemic catarrh diseases 616.203
monomania, mental derangements 132.1
Epidemics contagious diseases 614.5
diseases 616
public health 614.49
Epigenesis spontan. generation 576.1
[5] **Epigrams English literature** 828
Epigyneæ botany 584.2
Epilepsy diseases 616.853
Epiphany Anglican festival 264.031
Epirus ancient history 938.2
Episcopacy sects 283
Episcopal charges sermons 252.1
church 283
in Scotland 283.41
orders ministry 262.17
Episcopalians' lives 922.3
Episcopate ministry 262.12
Epispastics external irritants 615.774
Epistles Anglican ritual 264.036
Bible 227
[3] Epistolary writers' lives, English 928.26
Epistolography 808.6
Epitaphs 929.5
Epizoa parasites, zoölogy 591.69
Epizootic diseases, veterinary med 619
[1] Equador history 986
Equality social ethics 177.5
Equation-machine astron. instru. 522.54
of center orbits 521.38
time chronology 529.1
personal, astron. corrections 522.97
Equations, algebraical 512.3
chemical 541.9
indeterminate 512.23
numerical 512.2
theory of 512.82
trigonometric 514.4

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Equator, inclination of seasons 525.51
Equatorial belt earth 525.14
mounting telescopes 522.26
telescope astronomy 522.46
Equestrian exercise 798
Equilibrium astronomy, laws 521.11
of liquids physics 532.2
rotating spheroid 526.12
Equinoxes astronomy 525.5
Equipment of armies 355
navies 359
Equisetæ botany 587.2
Equity law 347.8
of redemption law 347.2
Equivalence of force physics 531.21
theoretical chemistry 541.2
Equivalent projections on maps 526.85
Equivocation ethics 177.3
Erbium metals 546.65
Erckmann, Émile French fiction 843.85
Eretrian philosophers 183.7
Ergot stimulants 615.711
uterines 615.766
Ericaceæ botany 583.62
Ericales " **583.6**
[1] Erie Co., N. Y. history 974.796
Eriocauleæ botany 584.81
Erizzo, S. Italian fiction 853.43
Erosion, **551.3**
Erotica **ethics** **176**
Errata proof-reading 655.25
Erratic boulders geology 551.33
Errhines therapeutics 615.726
Error, sources of logic 165
[3] Errors, grammatical Eng. language 428.3
of observation, probabilities 519.6
[3] speech Eng. lang. 428.3
popular delusions 133.7
[4] **Erse language** **491.61**
Eruptions volcanoes 551.21
Eruptive fevers diseases 616.911
Erysipelas diseases 616.942
[1] Erzerum, Asiatic Turkey history 956.6
Escapements watch making 681
Escharotics external irritants 615.775
Eschatology **236**
Esdras Bible 229.1
Espronceda, J. de Spanish poetry 861.52
[1] Esquimaux history 998
Essayists' lives English literature 928.24
French " 928.44
German " 928.34
[5] **Essays** **English literature** **824**
general collections 040
[2] special topics, see subject.
Essence metaphysics 121
Essences chem. tech. 668.5
Essenes Jewish religion 296
Essential oils chem. tech. 668.5
[1] Essex, England history 942.67
[1] Mass. " 974.45
[1] Essex County, N. Y. " 974.753
Established church. Anglican **283**
Estates law 347.6
Esther Apocrypha 229.2
Bible 222.9
Esthetics architecture 720.1
fine arts 701
[1] Esthonia, Russia history 947.4
Estimates building 692.5
[1] Estramadura, Spain history 946.2
Etchers' lives biography 927.6
Etching 767
Eternal life **future state** **237**
punishment, doctrinal theol. 237.7
Eternity doctrines 237.1
natural theology 218
Ether anæsthetics 615.781
poisons 615.965
temperance 178.8
Etherege, Sir G: English drama 822.42
Ethers chem. technology 668.5
organic chemistry 547.4
Ethical culture societies 170.6
education 377.2
ethics 170.7
Ethics **170**
legal 174.3
of copyright 655.61
social **177**
Ethiopia ancient history 939.78
[1] modern " 966
[4] **Ethiopic language** **492.8**
Ethmoid bone anatomy 611.91
Ethnic religions **290**
Ethnography **572**
Ethnology **572**
Etiology medicine 616.01
Etiquet customs 395
ethics 177.1
Etruria ancient history 937.5
Etruscan architecture 722.6
[4] language 477.5
Etudes piano music 786.47
[3] **Etymologies** **English language** **422**
Etymology, comparative philology 412
Eubœa ancient history 938.4
Eubulides Greek philosophers 183.6
Eucharist sacrament 265.3
Eucharistic music religious art 246.8
vessels sacred furniture 247.8
Euchre amusements 795

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Euclid Greek philosophers 183.6
Euclidian geometry 513
Eudemus Greek philosophers 185.3
Eudiometer experimental chemistry 542.7
Eudiometry quantitative analysis 545.7
Eugubine tables Umbrian language 477.4
Eulerian integrals calculus 517.32
Eulogies **biography** 920
sermons 252.9
Euphonium wind instruments 788.44
Euphorbiaceæ, botany 583.951
Euphuism rhetoric 808
[1] Eure, France history 944.24
Eure et Loir, France history 944.51
Euripides Greek drama 882.3
[1] **Europe** **antiquities** 913.4
botany 581.94
ecclesiastical hist. 274
geology 554
history 940
statistics 314
travels 914
European politics parties 329.94
Eustachian tubes ear diseases 617.86
Evald, Johannes Danish poetry 839.8152
Evangelical alliance religion 206
Evangelist ministry 262.15
Evangelistic art 246.7
music ecclesiology 246.7
sacred music 783.7
work pastoral theol. 253
writings, practical " 243
Evaporation meteorology 551.57
physics 536.44
practical chemistry 542.4
steam engineering 621.18
Evening prayer Anglican ritual 264.034
family devotions 249
personal " 248
schools 379.19
Everaert, Cornelis Dutch poetry 839.3124
Everett, Edward American oratory 815.31
Evergreens coniferæ 585.2
Evidence circumstantial 347.94
law 347.94
logic 163
Evidences of Christianity 239
Evil natural theology 216
origin of 216
pessimism 149.6
sin 233
spirits 235
theodicy 231.8
Evolution algebra 512.7
arithmetic 511.7
biology 575
Evolution **ethics** 171.7
natural theology 213
Ex libris 097
Examination, civil service 351.3
for academic degrees 378.24
of teachers, education 371.13
[3] papers, English philol. 428.9
post mortem, pathology 616.079
school, education 371.27
Examinations, competitive civil ser. 351.3
schools 371.27
Examining boards medical licenses 614.24
Exanthemata contag. diseases 614.52
Excavation mining 622.21
Excavations, antiquities 913
Excess of food hygiene 613.25
Exchange, bills of law 347.7
international money 332.45
of duplicates lib. admin. 025.2
specimens biology 579.614
stock 332.6
tables business 658
Exchanges architecture 725.25
Exchequer, Gt. Br. finance 336.42
U. S. administration 353.2
finance 336.73
Excise laws 336.27
offices architecture 725.14
public funds 336.27
Excitants therapeutics 615.785
Excommunication, ecclesiastic polity 262.9
Excrementa sewerage 628.2
Excreta, disinfection contag. dis. 614.48
Excretion physiological zoölogy 591.14
Excretions, organic respiration 612.26
Excretory organs comp. anat. 591.44
descr. " 591.74
Execution criminal law 343.2
Executive department const. law 342
lib. adminis. 025.1
Executors law 347.6
Exegesis Bible 220.6
Exemplaria typographica, rarities 090
Exercise hygiene 613.7
therapeutics 615.743
Exertion, excessive, effects of 616.983
Exhalation of vapor zoölogy 591.129
water vapor, physiology 612.25
Exhaustion, effects of diseases 616.986
Exhibition halls architecture 725.91
Exhibitions, building 690.6
international 606
of art 708
industry 606
school 371.29
special see subject.

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Exhortations public worship 264.6
Exile punishments 343.2
social ethics 177.8
Exodus Bible 222.12
Exorcism 133.4
Exotics botany
Expansion heat 536.41
Expatriation 341.5
Expectorants therapeutics 615.721
Expellent forces abnormal labor 618.51
Expenditure, public finance 336
Experience
Experimental chemistry 542
Experiments, chemical 542
Exploitation mining 622.3
Exploration hygiene 613.69
mining 622.1
Explorations 910
history of 910.9
Explorers' lives 923.9
Explosions of fire damp, mining eng. 622.81
protection of life 614.83
Explosives chem. tech. 662
manufac. of, hygiene 613.66
protect. of life 614.831
mining dangers 622.85
Exponential formulæ trigonometry 514.3
Exportation 382
Exports 382
Expositions useful arts 606
Expository sermons 252.8
Exposure of children customs 392.2
dead " 393.4
to cold protection of life 614.87
Express companies sociology 385
useful arts 656
Expression, facial art anatomy 743
physiognomy 138
musical 780.1
Extatics mental derang. 132.5
Extemporaneous speaking 808.5
Extempore prayer public worship 264.1
Extension of libraries 021.6
External **agencies therapeutics 615.77**
ear diseases of 617.81
plastering and stucco 693.61
walls, incrusted, arch. 729.61
windows arch. const. 721.84
Extinct animals paleontology 560
plants 561
Extinction of fire protec. of life 614.843
species 575.6
painless, of life, an. hygiene 614.971
Extra books for readers lib. econ. 024.7
fingers or toes deformities 617.36
time for readers lib. econ. 024.7
Extraction mining 622.6
of teeth dentistry 617.66
[5] Extracts English literature 828
on special subjects see subject.
Extradition international law 341.4
Extra-uterine pregnancy 618.31
Extreme unction sacraments 265.7
Extremities, lower, anatomy 611.98
surgery 617.58
upper, anatomy 611.97
surgery 617.57
Eye anatomy 611.84
asylums for blind 362.4
care of hygiene 613.65
diagnosis pathology 616.073
diseases of surgery 617.7
hospitals 362.1
architecture 725.51
optics 535.7
physiology 612.84
piece telescope 522.23
psychology 152.1
Eyelids eye diseases 617.77
Eyes, artificial surgery 617.79
care of, at school 371.72
protection of, in factories 628.5[illegible]
Ezekiel Bible 224.4
Ezra " 222.7
[5] Fables English literature 828
Fabre d'Églantine, P. F. N. French drama 842.64
Fabrics, textile manufacturers 677
Façades architecture 729.1
Face anatomy 611.92
surgery 617.52
Faces of type printing 655.24
[5] Facetiæ English literature 827
Facial angle craniology 573.7
Factories, carriage and car, arch. 725.45
coöperative pol. econ. 334.6
furniture arch. 725.44
sanitation in 628.51
textile architecture 725.41
useful arts 670
Factors and brokers law 347.7
Factory-laws political economy 338.9
system labor and wages 331
Faculæ sun 523.74
Faculty, intuitive mental science 156
Fagging student life 371.82
Fahlbands economic geology 553.17
Fahlcrantz, K. E. Swedish satire 839.7765
Faience ware pottery 738
Fairies 398.4
Fairs, agricultural 630.6
commercial 381

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Fairs, industrial 606
social customs 394.6
[5] **Fairy tales English literature 823**
folklore 398.4
mythology 291
Faith, confessions of creeds 238
pub. worship 264.5
cure religion 265.8
therapeutics 615.852
doctrinal theology 234.2
logic of assent 163
Falconry amusements 799
Faldella, G. Italian fiction 853.85
Faliscus, Gratius Latin poetry 871.4
[1] Falkland Islands history 997
travels 919.7
Fall of ground mines 622.83
man doctrinal theology 233.1
Fallacies logic 165
Fallen, parish care of 258
Falling bodies, deviations astron. 525.37
laws physics 531.52
Fallopian tubes anatomy 611.65
diseases of women 618.12
Falsehood ethics 177.3
Falsen, Enevold Danish drama 839.8254
Falster, Kristian " poetry 839.8143
Fame social ethics 177
Family devotions 249
ethics 173
genealogies 929.2
histories 929.2
hotels architecture 728.2
law 347.6
libraries 027.1
medicine 616.02
political science 321.1
relations customs 392.3
worship 249
Famine fever diseases 616.924
hygiene 613.24
Famines 616.985
Fanaticism religion 248
Fancy mental faculties 155.1
Fancy-work 746
Fans blowing engines 621.62
mining engineering 622.44
toilet 391.7
ventilation 697.9
Fantasia music 786.42
Faradisation electric medicine 615.84
Farces amusements 792
[5] English drama 822
Farewell sermons 252.9
Farina, S. Italian fiction 853.86
Farm houses architecture 728.67
Farmers-general finance 336.19
Farmers' occupation hygiene 613.64
Farming agriculture 630
Farms, sewage, sanitary eng. 628.37
[1] **Faroe islands history 949.1**
[4] Faroese language 439.6
literature 839.6
Farquhar, G. English drama 822.48
Farrer Catalan poetry 849.9134
Farriery horse shoeing 682.1
vet. medicine 619.1
[1] **Farther India history 959**
Fasciæ anatomy 611.74
diseases of 616.75
Fascination animals 591.57
Fashion customs 390
Fashionable education, women 376.4
Fast-day sermons 252.6
Fastening tools, mech. engineering 621.99
Fastenings arch. construction 721.88
Fasti, Roman 529.3
Fasting asceticism 248
hygiene 613.24
temperance 178.9
Fasts Anglican church 264.031
Fata Morgana, mirage 535.3
Fatalism natural theol. 214
Fathers duties 173.5
of the church, hist. 270.1
lives 922.1
works 281.1
Fats adulterations 614.313
animal chem. technol. 665.2
organic chemistry 547
physiology 612.397
protective external agents 615.776
vegetable chem. tech. 665.3
Fauces, diseases of 616.31
Faults structural geology 551.87
theory of, mining eng. 622.16
Fauna zoölogy 591.9
Faust, legend of legends 398.2
Feasts Anglican church 264.031
Rom. Catholic church 264.021
social customs 394.1
Feathers birds 598.2
comparative anatomy 591.49
Features of surface moon 523.34
sun 523.74
Febler Catalan poetry 849.9112
Fecal secretions physiological zoöl. 591.149
Fecundation botany 581.166
physiological zoölogy 591.166
Fecundity physiology 612.663
Federal government polit. science 321.8
party American politics 329.1

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Federalism political science 321.8
Federalists U. S. history 973.4
Federation, imperial, Gt. Brit. 354.4201
Feeble-minded, asylums for 362.3
arch. 725.53
education of 371.93
mental derangements 132.2
Feed mills architecture 725.47
Feeding of animals animal hygiene 614.95
[1] Feejee Islands history 996.1
travels 919.61
Feelings emotions 157
Fees, building 692.8
readers', library economy 024.2
tuition education 371.22
Feet, artificial, surgery 617.58
costumes 391.4
[3] English prosody 426.3
human anatomy 611.98
weights and measures 389
Feijóo y Montenegro, B. J. Spanish misc. 868.41
Feitama, Sybrand Dutch poetry 839.3144
Feith, Rhijnvis fiction 839.3343
Fellenberg's system education 371.42
Fellowship, church 265.2
Fellowships colleges 378.3
Felons criminal law 343
Felsites lithology 552.27
Felt roofing 695.7
Female colleges education 376.8
education 376
customs 396.4
employments 396.5
functions of generation 612.62
labor polit. economy 331.4
seminaries 376.9
sex duties 173
suffrage 324.3
Females, mortality of pub. health 614.143
Fences law 347.2
Fencing amusements 796
Fenianism Irish history 941.5
polit. assoc. 363
Fenollar, B. Catalan poetry 849.9132
Ferdinand I. German history 943.032
II. 943.042
III. 943.043
VI. Spanish history 946.056
VII. 946.07
Ferdinand and Isabella 946.03
[1] Ferghana, Turkestan history 958.7
Ferguson, E. American poetry 811.16
[1] Fermanagh, Ireland history 941.68
Fermentation chemical tech. 663.1
temperance 178
Fermentation yeast, etc. 589.9
Fermented beverages, adultera. 614.341
chem. tech. 663.1
Ferments aids to digestion 615.7342
materia medica 615.35
Ferns botany 587.3
palæontology 561.73
[1] Ferrara, Italy, history 945.4
Ferrari, P. Italian drama 852.75
Ferries administration 351.814
transportation 656
Ferrotype photography 772
Fertility fecundity 612.663
Fertilization botany 581.16
zoölogy 591.166
Fertilizers, agriculture 631
chem. technology 668.6
commercial, air pollution 614.748
manufacture 668.6
from sewage 628.49
Fessenden, T. G. Am. satire 817.22
Festivals Anglican church 264.031
cathedral music 783.28
of song " 784.5
Festive piano music 786.46
Fetichism 299
Feudal institutions 321.3
law 321.3
tenure law 347.2
Feudalism, age of, European history 940.3
political science 321.3
Feuillet, Octave French fiction 843.83
Fever animal heat 612.57
lung diseases 616.241
typhoid public health 614.511
Fevers, eruptive diseases 616.911
general works on pathol. 616.92
[1] Fezzan, Africa history 961.3
Fibres, nerve physiology 612.81
Fibrous materials agriculture 633
manufacture 677
Fichte German philosophy 193.3
idealism 141
Ficoidales botany 583.47
Ficoideæ " 583.475
[5] **Fiction English literature 823**
reading of 028.4
writing 808.3
Fictitious characters, dict. of 803
imprints
names pseudonyms 014
titles of books 098
Fidelity ethics 177.3
Fief 321.3
Field books engineering 620.8
fortifications 623.1

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Field operations geodesy 526.25
sports 796
work, triangulation, geodesy 526.3
Fielding, H: English fiction 823.52
[1] Fife Scotland history 941.33
musical instruments 788.5
Fighting, animal 175.6
prize 175.6
Figure-heads carving 736
human, in art art anatomy 743
of earth astronomy 525.14
geodesy 526.1
windows arch. dec. 729.84
Figures, correlation of geometry 513.57
of heavenly bodies astron. 521.14
prosody Eng. language 426.4
Gr. " 486.4
Lat. " 476.4
[3] other languages
[1] Fiji Islands history 996.1
Filangeri, G. Italian essays 854.66
Filial duty ethics 173.6
Filibusters criminal law 343
Cuban history 972.91
pirates 910.4
Filicaja, Vincenzo da Italian poetry 851.54
Filicinæ botany 587.3
Filing machines mechanical eng. 621.92
Filioque controversy theology 231.3
Filling teeth dentistry 617.67
Fillmore M., presidency of 973.64
Filter basins water works 628.16
presses, sewage 628.343
Filth diseases, pathology 616.93
public health 614.51
Filtration areas, sewage 628.368
hygiene 613.35
industrial sanitation 628.545
practical chem. 542.9
sewage 628.35
water supply 628.16
Final causes metaphysics 124
clauses Greek syntax 485.4
Finale orchestral music 785.1
Finance political economy 336
Finances library economy 025.1
local government 352.1
Financial admin. civil service 351.71
crises pol. economy 332
institutions pol. econ. 332
Financiers' lives 923.3
Finding latitude 525.41
at sea 527.1
longitude 525.46
at sea 527.2
meridian line astronomy 522.31
Finding time 529.7
at sea 527.3
Fine arts 700
biography of 927
Fines library economy 024.6
Finger alphabet, deaf and dumb 371.92
rings costumes 391.7
Fingers, extra deformities 617.36
Finishing painting 698.3
[1] Finistère, France history 944.11
Finite and infinite metaphysics 125
differences calculus 517.6
[1] Finland, Russia history 947.1
Finnish language 494
literature 894
Finno-Hungarian language 494
Fiorentino, G. Italian fiction 853.22
Fire alarm stations architecture 725.19
alarms signals 654.7
arms army 355
manufacture 683
balls meteors 523.52
clays economic geology 553.61
departments administration 352.3
engines, mechanical engineering 621.68
protection of life 614.846
escapes " " " 614.847
exits " " " 614.848
extinction local government 352.3
automatic 614.844
chemical 614.845
insurance 368.1
physics 536.46
places 697.1
proof buildings, building 693.8
depositories architecture 725.24
piers and columns 721.36
works chemical tech. 662.1
worshippers 295
Firenzuola, A., Italian fiction 853.34
Fires administration 351.782
library 022.2
local government 352.3
mines 622.82
protection of life 614.84
First cause metaphysics 122
[3] lessons in English language 428.2
Fischart, J. German satire 837.42
Fish, air pollution 614.741
as food hygiene 613.29
commission 639
culture 639
dead and diseased air pollution 614.763
fresh, inspection of, pub. health 614.317
preservation of chem. tech. 664.9
preserved, inspec. of, pub. health 614.319

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Fisheries business 639
ownership, polit. econ. 333.9
production 338.3
Fishermen's occupation hygiene 613.64
Fishes **paleontology** **567**
zoölogy **597**
Fishing sports 799
Fission physiological zoölogy 591.165
Fistula surgery 617.23
Fittings, library 022.9
[1] Fiume, Austria history 943.94
Fixed furniture **arch. dec.** **729.9**
location lib. economy 025.8
oils and acids, materia medica 615.34
Fixtures law 347.2
library 022.9
Flaccus, C. V., Latin epic poetry 873.3
Flagellants monastic order 271.79
Flagellarieæ botany 584.41
Flagellata zoölogy 593.16
Flageolet musical instruments 788.5
Flags heraldry 929.9
Flamboyant architecture, Gothic 723.54
Flamenca Provençal poetry 849.123
Flames physics 536.46
[1] Flanders history 949.3
Flat-bed irrigation sewage 628.363
Flats architecture 728.2
housekeeping 640
Flattery ethics 177.3
Flaubert, G. French fiction 843.84
Flax agriculture 633
manufacture 677
Fleas animal parasites 616.9681
Fleets naval science 623.8
[4] **Flemish language** **439.3**
literature **839.3**
painting 759.9
Flemming, P. German poetry 831.52
Fletcher, G. and P. English poetry 821.37
J. " drama 822.35
Flexure, transit, inst. astronomy 522.38
Flies insects 595.77
Flight of birds, migration 591.52
[1] Flint, Wales, history 942.93
Flint chips early stone age 571.15
Floating batteries naval engineering 623.9
bodies physics 532.3
debt finance 336.32
Flogging in navy 359
punishments 343.2
Flooding of mines 622.84
Floods meteorology 551.57
Floors and flooring **architecture** **721.6**
mosaic arch. decoration 729.73
Flora, geographical 581.9
Flore and Blancheflor legends 398.2
[1] Florence, Italy history 945.5
travels 914.55
Florian, J. P. C. de French fiction 843.58
Floriculture landscape gardening 716.2
[1] Florida, U. S., history 975.9
Florideæ botany 589.41
Flour manufacture 679
mills architecture 725.47
Flow in sewers 628.222
of blood, rapidity of, physiology 612.15
liquids physics 532.51
streams meteorology 551.57
Flower garden, landscape garden. **716**
Flowers **botany** **580**
gardening 716.2
language of 716.2
Flues in houses sewer ventilation 628.233
smoke heating 697.8
Fluid, pancreatic physiology 612.34
vein hydraulics 532.52
Fluids, physics **532**
preservative, biol. specimens 579.2
Flukes parasitic diseases 616.963
Fluorescence light 535.3
Fluorine inorganic chemistry 546.16
mineralogy 549.4
Flushing shafts sewers 628.254
Flute musical instruments 788.5
Flutina music 786.9
Fluxes metallurgy 669.8
Fluxions **calculus** **517**
Fly, house zoölogy 595.77
Flying animal locomotion 591.47
machines, aeronautics 533.6
Fœtal appendages, pathology of **618.34**
Fœtus, abnormalities of 618.53
human, death and retention of 618.33
obstacles to expulsion of 618.52
physiological zoölogy **591.3**
Fœtuses, coalescence of deformities 617.35
Fog signals commerce 654.9
Fogazzaro, Antonio Italian poetry 851.85
[1] Foix, France history 944.88
Fokke, A. S. Dutch humor 839.374
Folds geology 551.87
Folengo, Teofilo Italian satire 857.31
Foliage botany 581.4
Folk-lore 398.3
song folk-lore 398.8
music 784.4
Folkvisor Swedish poetry 839.7114
Font sacred furniture 247.1
Fontanes, Louis French poetry 841.62
Fontenelle, B. le B. de, French essays 844.51
[1] Foo Choo history 951.2

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Foo Choo travels 915.12
Food, acquisition of physiolog. zoöl. 591.131
adulterations public health 614.31
animal econ. zoölogy 591.63
canned adulterations 614.318
chemical analysis 543.1
technology 664
cures therapeutics 615.854
digestion and nutrition 612.3
zoölogy 591.13
domestic economy 643
hygiene 613.2
inspection adulterations 614.31
of animals 591.53
laboring classes, polit. econ. 331.83
plants 581.13
preservation of veg., chem. tech. 664.8
animal 664.9
preserved adulterations 614.318
vegetable econ. botany 581.63
zoölogy 591.53
Fools lives 920.8
mental derangements 132.2
Foot ball amusements 797
[3] English prosody 426.3
human anatomy 611.98
measures 389
prints, fossil paleontology 566
Foote, S. English drama 822.62
Foraminifera zoölogy 593.12
Force and energy statics 531.2
its measure mechanics 531.21
centrifugal and centripetal 531.35
composition of mechanics 531.22
electric, storage of 621.35
transmission of, eng. 621.34
physics 537.84
intermolecular physics 539.6
lines of magnetism 538.1
metaphysics 118
of water, river engineering 627.1
parallel mechanics 531.24
pump pneumatics 533.84
transmission of, mechan. 531.8
mill work 621.8
Forced alimentation hygiene 613.23
Forceps, application obstetrics 618.81
Ford, J. English drama 822.38
Foreclosure law 347.2
Foreign banks 332.15
bodies, presence of, diseases 616.981
wounds surgery 617.146
[3] elements English language 422.4
enlistment 355
labor political economy 331.6
law 349
Foreign missions 266
relations internat. law 341
polit. science 327
states administration 354
trade 382
Foreknowledge of God doct. theol. 231.4
Forensic chemistry law 340.6
medicine " 340.6
Foreordination salvation 234.9
Forest trees botany 582
Forestry agriculture 634.9
landscape gard. 715
Forests administration 351.823
meteorology 551.58
ownership, polit. econ. 333.7
[1] Forfar, Scotland history 941.31
Forge-bellows 533.87
Forgemen's occupation hygiene 613.64
Forgery law 343
of academic degrees 378.26
political economy 332.9
Forgiveness of sin theology 234
Forks, tuning, acoustics 534.3
Form books law 347.93
musical 781.5
ontology 111
Formation of character 374
crystals, crystallography 548.5
[1] Formosa history 951.2
travels 915.12
Forms, elementary arch. design 729.3
of suffrage 324.2
Formulæ, exponential, trigonometry 514.3
L. M. Z. geodesy 526.46
theoretical chemistry 541.9
Formularies materia medica 615.13
Fornication criminal law 343
Forteguerri, N. Italian satire 857.58
Fortifications military engineering 623.1
Fortune-telling 133
Foscolo, U. Italian poetry 851.66
Fossil resins economic geology 553.29
Fossils 560
geographical distribution 560.9
man 569.9
antiquity of man 573.3
Foucault's pendulum 525.36
Foundation of piers, bridge eng. 624.1
Foundations, arch. construction 721.1
Founding of libraries 021.6
type printing 655.21
Foundling asylums architecture 725.58
sociology 362.7
Foundries architecture 725.43
metal manufactures 671
Fountains landscape gard. 714

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Fouqué, La Motte German fiction 833.65
Fourierism communism 335.3
Fourth dimension geometry 513.8
Fowling sport 799
Fowls domestic animals 636.5
Fox, C. J. English oratory 825.63
Fox-hunting amusements 799
Fractional currency money 332.41
Fractions algebra 512.4
arithmetic 511.4
Fractures surgery 617.15
Framing carpentry 694.2
France administration 354.44
antiquities 913.44
architecture 720.944
botany 581.944
colleges 378.44
constitutional law 342.44
education 370.944
finance 336.44
geology 554.4
history 944
language 440
laws 349.44
literature 840
local government 352.044
maps 912.44
religious history 274.4
schools, public 379.44
statistics 314.4
travel 914.4
treaties 341.244
zoölogy 591.944
other topics see table 1
[1] Franche Comté, France history 944.45
Franchise, elective polit. sci. 324
Francis I. French history 944.028
II. 944.029
Francis I. German history 943.055
II. 943.06
Franciscan monks 271.3
sisterhood 271.973
Franco-German war French history 944.08
Germ. " 943.082
Franconia, house of, " " 943.023
[1] Lower, Germany " 943.33
travels 914.333
[1] Middle " hist. 943.32
travels 914.332
[1] Upper " hist. 943.31
travel 914.331
Frankeniaceæ, botany 583.151
[1] Frankfort history 943.58
travels 914.358
Franking privilege post office 383
Frankish emperors, Italian history 945.02
[1] Franklin Co., Mass. history 974.42
[1] N. Y., history 974.755
Franks history 943.01
Franzén, F. M. Swedish poetry 839.7158
Fraud law 347.5
Fraudulent conveyances law 347.7
elections U. S. 324.73
Fraunhofer's lines spectroscope 535.84
Freckles dermatology 616.55
Frederick I. German history 943.024
II. " " 943.025
III. " " 943.028
Free agency doctrinal theology 234.9
church of Scotland, sects 285.6
cities German government 354.4309
Italian history 945.04
hand drawing 741
institutions
love ethics 173.1
news and reading rooms 027.9
public libraries 027.4
religion 211
school system education 379.1
soil party political party 329.6
U. S. history 973.61
speech polit. science 323
thinkers' lives 922.9
thought ecclesiastical polity 262.8
rationalism 211
trade and protection 337
use of libraries 024.2
will metaphysics 123
psychology 159
theology 234.9
Freebooters criminal law 343
Freedmen, education of 371.94
in U. S. army United States history 973.7415
slavery 326.8
Freedmen's bureau 361
Freedom and emancipation, slavery 326.8
U. S. hist. 973.714
metaphysics 123
of man doct. theol. 233.7
press censorship 323
public order 351.751
speech 323
political liberty 323
religious eccles. polity 262.8
salvation 234.9
Freehold land societies 334.1
law 347.2
Freemasonry 366.1
Freewill Baptists 286.2
Freezing, artificial ice machines 621.5
mixtures 621.5

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Freezing physics 536.43
water works 628.15
Freight houses, R. R. architecture 725.32
transportation 656
Freiligrath, F., German poetry 831.78
French allies American history 973.324
and Indian war, U. S. hist. 973.26
church, Gallican 282.44
[1] Cochin China, history 959.7
travels 915.97
encyclopedists, apologetics 239.6
[2] Guiana history 988
travels 918.8
horn wind instru. 788.41
[4] **language** 440
literature 840
old language 447.01
opera dramatic music 782.4
painting 759.4
philosophers' lives 921.4
philosophy 194
polish chem. tech. 667.7
protestants, persecutions of 272.4
republic, 1st history 944.042
2d 944.07
3d 944.08
revolution 944.04
Romanesque architecture 723.44
roofs arch. construc. 721.5
sculpture 735
spoliations U. S. history 973.45
Freneau, Philip American poetry 811.24
Fresco painting, building 698.2
interior decoration 747
painting 750
sacred ornament. 247.5
Frese, Jacob Swedish poetry 839.7137
Fresh-air mission 361
Freshets meteorology 551.57
Fret-work 747
Freytag, G. German fiction 833.82
Frezzi, F. Italian poetry 851.21
Friars monastic orders 271
Friction mech. engineering 621.89
physics 531.4
Frictional electricity 537.2
[1] Friendly Islands history 996.1
societies 334.7
Friends, society of sects 289.6
Friendship ethics 177.6
[1] **Friesland history** 949.2
travels 914.92
Friezes, carved arch. decoration 729.56
painted " " 729.46
[4] **Frisian language** 439.2
literature 839.2
Fröbel's system education 371.46
Frogs zoölogy 597.8
Fronto, M. C. Latin letters 876.3
Frost action geology 551.91
bites skin disorders 616.58
blight agriculture 632
meteorology 551.52
Fructification botany 581.16
Frugoni, C. I., Italian poetry 851.57
Fruit culture 634
drinks adulterations 614.346
Fruits and seeds agriculture 634
organography 581.76
fresh, inspec. of, pub. health 614.316
preservation of chem. tech. 664.8
preserved, inspec. of, pub. health 614.318
Fryxell, Anders, Swedish miscellany 839.7863
Fuel, artificial, chemical technology 662.8
chemical tech. 662.6
domestic economy 644
metallurgy 669.8
steam engineering 621.18
Fugitive slave law U. S. slavery 326.973
Fugitives from justice extradition 341.4
Fugue music 786.82
Full development, period of 612.66
Fuller, Margaret American essays 814.31
Fulminating powders chem. tech. 662.4
[1] Fulton Co., N. Y. history 974.747
Fumes, prevention of, in factories 628.511
Fumigating apparatus, cont. diseases 614.481
Function of motor appara., phys. 612.7
skin " 612.79
Functional diseases of brain and cord 616.84
diseases of women 618.17
equations 517
Functions, Bessel's, etc. calculus 517.35
calculus of 517.5
nervous physiology 612.8
of generation female 612.62
male 612.61
symmetric, algebra 512.84
trigonometric 514.1
Funding system finance 336.31
Funds, public 336
Funeral rites, customs 393
religious ordinance 265.8
sermons 252.9
Fungi botany 589.2
Funis, prolapsus parturition 618.58
Fur-trade 338.1
Furetière, A. French satire 847.45
Furnaces house warming 697.3
metallurgy 669.8

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Furnaces . . mining ventilation 622.43
steam engineering 621.18
ventilation of sewers 628.236
Furniture domestic economy 645
ecclesiastical 247
factories, architecture 725.44
fixed, arch. decorat. 729.9
library economy 022.9
manufacture 684
school 371.6
Furs clothing 646
Fuses explosives 662.4
Fusion-point physics 536.42
Future events, probabilities 519.4
judgment doctrinal theology 236.9
life natural theology 218
punishment 237.6
state, doctrinal theol. 237
Gabbro plutonic rocks 552.34
Gabies arch. construction 721.28
design 729.37
roofs 721.58
[4] **Gadhelic language 491.61**
Gadsden purchase U. S. history 973.66
[2] **Gaelic language 491.63**
Gaetulia ancient history 939.77
Galatia " " 939.32
Galatians Bible 227.4
Galena economic geology 553.44
metallurgy 669.4
Gales meteorology 551.51
[2] Galicia, Austria history 943.74
[1] Spain " 946.1
Galilei, G. Italian essays 854.52
Gall bladder anatomy 611.36
diseases of 616.36
formation secretions 591.145
Gallantry ethics 177.1
Galleries and libraries 021.4
art 708
architecture 727.7
library buildings 022.4
shooting architecture 725.89
Galleys criminal law 343.2
Gallia Cisalpina ancient history 937.2
Gallican church 282.44
Gallium chemistry 546.68
Gallows criminal law 343.2
Galt, John English fiction 823.77
Galvanic manipulation 542.8
Galvanism 537.5
Galvanized iron manufactures 671
Galvanometers 537.86
Galvanoplasty, electro. metallurgy 537.85
[1] Galway, Ireland history 941.74
Gambling administration 351.762
Gambling ethics 174.6
of amusements 175.9
law 345
Game laws hunting 799
Games, amusements 790
champ'nship, school hygiene 371.75
customs 394.3
ethics 175
Greek 913.38
of chance amusements 795
ethics 175.5
Roman 913.37
school 371.74
table and parlor 793
Gaming, public administration 351.762
Gamopetalæ botany 583.5
Ganglia anatomy 611.89
physiology 612.89
Gangrene lung diseases 616.245
surgery 617.25
Ganoidei fishes 597.4
Garbage sanitation 628.44
Garcia Catalan poetry 849.9137
[1] Gard, France history 944.83
Gardening, flower 716.2
kitchen 635
landscape 710
market 635
window 716.4
Gardens, botanic 580.7
architecture 727.5
zoölogical 590.7
" 727.5
Garfield, J. A., presidency of 973.84
Garibaldi Italian history 945.09
Garnier, Robert French drama 842.37
Garrick, D. English drama 822.61
Garter, order of heraldry 929.714
Garters hygiene 613.484
Garth, S. English satire 827.48
Gas, coal heating 697.6
engines engineering 621.4
physics 536.82
exchange respiration 612.22
fitting 696.2
heating 697.6
illuminating air pollution 614.723
inspection of 614.835
light domestic economy 644
library " 022.7
manipulation practical chem. 542.7
manufacture 665.7
natural economic geology 553.28
heating 697.6
sewer air pollution 614.765
sanitary engin. 628.23

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Gas, suffocation by, protection of life 614.82
water heating 697.6
works air pollution 614.723
Gascoigne, G. English satire 827.31
[1] Gascony, France history 944.77
Gases chem. tech. 665
effect on books 025.8
illuminating air pollution 614.723
in mines 622.41
inhalation of, hyg. of employ. 613.62
kinetic theory 533.7
noxious air pollution 614.72
pneumatics 533
quantitative analysis 545.7
Gasteromycetes botany 589.221
Gastric secretions physiolog. zoöl. 591.143
Gastritis diseases 616.33
Gastronomy cookery 641
Gastropoda zoölogy 594.3
Gates arch. construction 721.8
Gatling guns military eng. 623.4
Gauging arithmetic 511.8
measures 389
[1] **Gaul** history 944
Gauss's theory magnetism 538.1
Gautama Buddhism 294
Gautier, Théophile French fiction 843.77
Gay, J. English drama 822.56
Gayangos, Pascual de Spanish misc. 868.51
Gazetteers 910.3
special country see country, 914-919
Gearing mill engineering 621.85
Gears, valve " " 621.84
Gehenna doctrinal theology 237.5
Geibel, E. German poetry 831.83
Geiger, E. G. Swedish miscellany 839.7861
Geissler's tubes electricity 537.53
Gelatine processes, photography 773
Gelatinosæ botany 589.18
Gellert, C. F. German poetry 831.61
Gelli, G. Italian essays 854.37
Gem engraving 736
Gemara Judaism 296
Gemignano, F. da San Ital. satire 857.11
Gemmation zoölogy 591.165
Gems economic geology 553.8
engraved 736
mineralogy 549
Gender English language 422.5
French " 442.5
Latin " 472.5
[3] other languages
Geneagenesis zoölogy 591.162
Genealogy 929
General average law 347.7
council eccles. polity 262.5
General council religious history 270.2
Generalization, logic 161
Generals, lives of 923.5
Generation, botany 581.16
female functions of, phys. 612.62
male " " " 612.61
spontaneous 576.1
steam 621.18
zoölogy 591.16
Generative organs, anatomy 611.6
male funct'l dis. 616.69
Generatory organs comp. anat. 591.46
descriptive anat. 591.76
[1] Genesee Co., N. Y. history 974.792
Genesis Bible 222.11
Geneva award, U. S. history 973.82
confession creeds 238.4
[1] history 949.4
travels 914.94
tribunal international law 341.6
Genii 398.4
Genital tract, rupture of abnormal labor 618.55
Genitive case Greek syntax 485.5
Latin " 475.5
[3] other languages
Genito-urinary system, anatomy 611.6
diseases of 616.6
drugs act. on 615.76
surg. opera. 617.46
Genius 151.1
[1] Genoa, Italy history 945.1
travels 914.51
Genre painting 754
Gentianales botany 583.7
Gentianeæ " 583.75
Gentlemen courtesy 177.1
Gentleness ethics 179.9
Geocentric place 521.2
Geodesy 526
Geognosy 551
Geographical coördinates 525.4
discovery, history of 910.9
distribution, anim. 591.9
fossils 560.9
of contag. dis. 614.42
plants 581.9
names 929.4
variation animals 591.152
plants 581.152
Geography, ancient 912.3
Biblical 220.91
descriptive 910
elementary education 372.8
historical 911
maps 912

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Geography, physical 551.4
Geoidal figure of earth 526.17
Geological reports 550
surveys 554-558
time 550.1
Geologists' lives 925.5
Geology 550
agricultural 631
and religion apologetics 239.8
applied mining eng. 622.11
dynamical 551
nat. theol. 215
speculative 550.1
Geomancy divination 133.3
Geometric forms decoration in relief 729.54
painted decoration 729.44
windows arch. " 729.81
Geometrical drawing math. drawing 744
Geometricians' lives 925.1
Geometry 513
analytical 516
descriptive 515
Geomorphy 525.14
George I. English history 942.071
II. " " 942.072
III. " " 942.073
IV. " " 942.074
[4]Georgia, Asia history 947.9
travel 914.79
[2] Europe 947.9
[2] U. S. history 975.8
Geraniaceæ botany 583.223
Geraniales " 583.21
Gerhardt, P. German poetry 831.54
Germ cells, development botany 581.172
zoölogy 591.172
theory biology 576
of disease bacteria 589.95
pathology 616.01
German Catholic church sects 282.43
dancing 793
emperors, Italian history 945.03
[2] empire, new 943.08
[4] language 430
low 439.1
middle high 437.02
old " 437.01
[4] literature 830
low 839.1
mythology 293
opera music 782.3
Wagnerian, music 782.2
painting 759.3
philosophers' lives 921.3
philosophy 193
reformation relig. hist. 274.3
German reformation secular hist. 943.03
reformed church 284.1
Romanesque architecture 723.43
sculpture 735
socialism 335.5
universities 378.43
Germany administration 354.43
antiquities 913.43
architecture 720.943
botany 581.943
constitutional law 342.43
education 370.943
finance 336.43
geology 554.3
[2] history 943
laws 349.43
local government 352.043
maps 912.43
religious history 274.3
schools, public 379.43
statistics 314.3
travel 914.3
treaties 341.243
universities 378.43
zoölogy 591.943
Germicides external therapeutics 615.778
Germination botany 581.3
[1]Gers, France history 944.77
Gerstäcker, F. German fiction 833.77
Gerund Latin etymology 472.8
syntax 475.8
Gesneraceæ botany 583.83
Gesta Romanorum, mod. Lat. fiction 879.3
Gestation, ectopic, diseases of women 618.31
obstetrics 618.2
Gestures oratory 808.5
Gettysburg, battle of U. S. history 973.7349
Geysers physical geology 551.23
Ghebers Parseeism 295
[1]Ghent history 949.3
travels 914.93
Gherardi del Testa, T., Italian drama 852.74
Ghibelines Italian history 945.04
Ghistele, C. van Dutch poetry 839.3128
Ghost, Holy dogmatics 231.3
Ghosts delusions 133.1
Giacometti, P. Italian drama 852.73
Giambullari, B. F. " essays 854.36
Giannone, P. " " 854.57
Giannotti, D. " " 854.35
Giant, Cardiff, humbugs 133.7
Giant's causeway description 914.161
natural history of man 573.8
Gibbon, E. English essays 824.67
[1]Gibraltar history 946.8
travels 914.68

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Gifford, W. English satire 827.71
Gigantostraca zoölogy 595.39
Gigli, G. Italian drama 852.54
Gil y Zárate, A. Spanish poetry 861.55
Gilbert, N. J. L. French satire 847.52
[1] Gilbert Islands history 996.8
Gilding 671
Gilds polit. economy 338.6
Gilead travels 915.69
Giles, H. American essays 814.32
Gin chemical technology 663.5
Gioberti, V. Italian essays 854.77
Giordani, P. " " 854.72
Giovagnoli, R. " fiction 853.87
Gipsies outcast races 397
Gipsy language 397
Giraldi, G. B. C. Italian drama 852.42
" fiction 853.44
Girart de Rossilho Proven. poetry 849.121
Girders bridge engineering 624.2
Girls, counsels to ethics 173.6
female education 376
[1] Gironde, France history 944.71
Girondists " " 944.04
Girs, Ægidius, Swedish miscellany 839.7823
Giusti, G. Italian satire 857.71
Glacial drift erosion 551.33
period 551.79
Glaciers 551.31
Gladiators customs 394.2
[1] Glamorgan, Wales history 942.97
Glanders diseases 616.954
public health 614.564
Glandular system anatomy 611.4
drugs act. on 615.74
surg. opera. 617.44
[2] Glasgow history 941.43
travels 914.143
university 378.41
Glass and iron structures architec. 721.98
wood " " 721.99
building 691.6
iridescent 748
manufacture 666.1
painted 748
prehistoric 571.56
roofs architecture 721.53
stained, design " 729.8
works " 725.48
Glauconite lithology 552.58
Glazing building 698.5
Glees vocal music 784.1
Gleet diseases 616.952
Glisettes curves 516.26
Globe of eye diseases of 617.74
Globes school apparatus 371.63
Globes use of astronomy 522.78
Globular projection 515.52
Globules of blood, red physiology 612.111
Gloria in excelsis service, music 783.22
[3] **Glossaries English dialects 427**
[3] language 423
[1] Gloucester, England history 942.41
Gloves clothing 646
costume 391.4
leather, manufacture 675
woven " 677
Glucose chem. tech. 664.1
Glucosides vegetable drugs 615.333
Glue chem. tech. 668.3
making air pollution 614.746
Glumaceæ botany 584.8
Gluttony temperance ethics 178.9
Glycerine chemical technology 668.2
Glyphography, engraving 762
Glyptics carving 736
Gnats animal parasites 616.9681
Gneiss lithology 552.42
Gnetaceæ botany 585.1
Gnoli, Domenico Italian poetry 851.83
Gnomes folk-lore 398.4
Gnomic poetry Greek literature 881
Gnomonic projection, descr. geom. 515.55
Gnosticism philosophy 189.1
Gnostics heresy 273.1
Goats 636.3
diseases of comparative med. 619.3
Gobelin tapestry art needlework 746
Goblins folk-lore 398.4
God doctrines 231
will of ethics 171.1
Godfrey, T. American drama 812.12
Gods idolatry 290
mythology 291
Goes, J. A. van der Dutch poetry 839.3137
Goethe, J. W. von German drama 832.62
Goître pathology 616.44
Gold chemistry 546.91
[1] Coast, Africa, history 966.9
coinage 332.4
manufactures 671
metallurgy 669.2
mineralogy 549.2
ores econ. geology 553.41
political economy 332.41
Golden bull Germ. const. hist. 342.43
Goldoni, Carlo Italian drama 852.61
Goldschmidt, M. A. Danish fiction 839.8365
Goldsmith, O. English essays 824.66
fiction 823.64
poetry 821.64
Goldsmithing, useful arts 671

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Goldsmiths' work fine arts 739
Gomberville, M. Le Roy de Fr. fict. 843.42
Gongora y Argote, L. de Span. poet. 861.37
Goniometry crystallography 548.7
Gonorrhœa pathology 616.952
public health 614.548
Good-Friday Anglican church 264.031
special music 783.27
[1] Hope, Cape of history 968.7
travels 916.87
Templars temperance 178.06
Goodenovieæ, botany 583.58
Goodness ethics 179.9
Goose, Mother, folk-lore 398.3
Gorgias Greek philosophers 183.1
Gorham controversy baptism 265.1
Gorilla zoölogy 599.8
Gospels Anglican ritual 264.036
Bible 226
harmonies of 226.1
pseudo 229.8
Gossip ethics 177.2
Gotama Buddhism 294
Göthe, J. W. von German drama 832.62
Gothic architecture 723.5
ecclesiology 246.1
Kingdom, Italian history 945.01
Spanish " 946.01
[4] **language 439.9**
literature 839.9
revival, architecture 724.3
Victorian " 724.4
[1] Gothland, Sweden history 948.6
Goths 943.01
Gottfried von Strassburg, Germ. poet. 831.25
Gottschall, K. R. German drama 832.84
Gottsched, J. C. " " 832.54
L. A. V. " " 832.55
Goudouli, P. de Provençal poetry 849.141
Gout diseases 616.991
Governess, private education 373.1
Government, central admin. 351
organ. for. states 354
control, insurance 368.91
divine 231.7
elemen. schools 372.1
family, ethics 173
foreign countries 354
forms of 321
libraries 027.5
library economy 023
loans finance 336.3
local administration 352
political science 320
publishing 655.59
school, education 371.5
Government, science of polit. sci. 320
U. S. and State adm. 353
Governmental buildings arch. 725.1
Governors' lives 923.2
Gower, J. English poetry 821.18
Gozzi, Carlo Italian drama 852.62
Gasparo " satire 857.61
Grabbe, C. D. German drama 832.71
Gracchi Roman history 937.05
Grace æsthetics 701
doctrinal theology 234.1
Graces music 781.2
mythology 292
Grade of sewers, sanitary engineering 628.219
Graded degrees, academic 378.22
Grades schools 371.25
Grading engineering 625.1
Gradual cathedral music 783.23
Graduation schools 371.29
Græco-Russian church 281.9
Graffiti inscriptions 471.7
Grafting fruit culture 634
Grail, holy legends 398.2
Grain agriculture 633
elevators, architecture 725.36
trade dom. trade 381
Graining house painting 698.1
Grains agriculture 633
Grallatores zoölogy 598.3
Gramineæ botany 584.9
Grammar, comparative 415
elemen. education 372.6
schools public schools 379.17
universal compar. philol. 415
[3] **Grammars English language 425**
Gramme machine electricity 537.83
Granada, Luis de, Spanish miscellany 868.32
[1] Spain history 946.8
travels 914.68
Granaries architecture 728.95
Grand army of the repub., associations 369.151
U. S. hist. 973.76
opera 782
Grangers 363
Granite building stone 553.52
plutonic rock 552.33
Granites metamorphic rock 552.41
Grant, U. S., presidency of hist. 973.82
Grants, land finance 336.14
to schools 379.12
Grape culture 634
cure therapeutics 615.854
sugar manufacture 664.1
Graperies architecture 728.98
Graphic arts, fine arts 700
Graphical representations of sound 534.6

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Graphical statics 531.2
Graphics of light and shadow 515.7
Graphite economic geology 553.26
Graphitic anthracite economic geol. 553.25
Grasses agriculture 633
botany 584.9
ornamental 716.1
Grasshoppers, pests 632
zoölogy 595.72
Gratings, timber foundations 721.15
Gratitude ethics 179.9
Grattan, H. English oratory 825.65
Grave mounds prehist. archæology 571.92
Gravel disease 616.62
foundations 721.14
petrography 552.51
Grave stones, monuments 718
yards 719
Graves cemeteries 719
Gravimetric analysis chemistry 545.1
Gravina, G. V. Italian essays 854.55
Gravitation celestial dynamics 521.12
system waterworks 628.12
Gravity, centre of 531.24
experiments geodesy 526.7
physics 531.5
specific 532.4
Gray, T. English poetry 821.61
Grazzini, A Italian fiction 853.41
Great Britain, antiquities 913.42
church hist. 274.2
colonies 325.242
commerce 382
debt of finance 336.42
govt. of 342.42
history 942
parliament 328.42
politics 329.942
circle sailing navigation 527.5
Eastern, ship building 699
[8] Russia, Northern, history 947.2
travels 914.72
[8] Southern, history 947.3
travels 914.73
[8] Salt lake, travels 917.92
Grecian bend fashions 391.2
[1] **Greece, ancient history** 938
modern administration 354.495
botany 581.9495
finance 336.495
geology 554.95
history 949.5
maps 912.495
schools 379.495
statistics 314.95
travel 914.95
Greece, modern treaties 341.2495
Greek antiquities 913.38
archipelago, ancient hist. 939.1
[1] **modern "** 949.9
architecture 722.8
art, history of 709.38
church 281.9
classics 880
dialects 487
fire customs of war 399
independence, mod. history 949.506
[4] **language** 480
[4] **modern** 489
literature 880
modern 889
mythology 292
orders of architecture 729.32
paleography, inscriptions 481.7
philosophy 180
revival architecture 724.2
sculpture 733
theory of music 781.8
Green, J. American poetry 811.14
[1] Green Co., N. Y. history 974.737
Green-sickness diseases 618.17
Greenback party 329.82
Greenbacks paper money 332.5
U. S. finance 336.73
Greene, R. English drama 822.31
Greenhouses 716.3
architecture 728.98
Greenland, discovery of, Scan. hist. 948.02
[1] history 998
Greensand petrography 552.58
Gregarinidæ zoölogy 593.19
Gregariousness of animals 591.55
Gregorian calendar 529.5
chant ecclesiology 246.8
sacred music 783.5
Gresban, Arnoul French drama 842.21
Gresset, J. B. L. " satire 847.51
Grévin, Jacques " drama 842.35
Grévy, Jules Third republic 944.08
Griepenkerl, W. R. German drama 832.72
Grilles arch. construction 721.87
Grillparzer, F. German drama 832.73
Grimmelshausen, H. J. C. von
Germ. fict. 833.52
Grimm's law comparative philology 412
Grinders' occupation hygiene 613.63
Grinding flour mills 679
machines mech. eng. 621.92
Gringoire, Pierre French drama 842.23
Groceries adulterations 614.3
Grocers' occupation hygiene 613.63
Groined vaults architecture 721.44

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Grossi, Tommaso Italian fiction 853.73
Grotesque forms decoration in relief 729.53
painted decoration 729.43
Grottoes physical geography 551.44
Ground air hygiene 613.14
public health 614.773
hygiene of pub. health 614.7
water physical geog. 551.49
Grounds, private 712
Groves landscape gardening 715
Growth after birth physiology 612.65
biology 577.3
botany 581.134
disproportionate deform. 617.37
incomplete " 617.31
of cities adminis. 352.001
statistics 312
physiology 612.394
zoölogy 591.134
Grundtvig, N. F. S. Danish poetry 839.8163
Gryphius, A. German drama 832.51
[2] Guadaloupe history 972.97
travels 917.297
[1] Guanajuato, Mexico history 972.4
Guano agriculture 631
economic geology 553.64
Guaranties and sureties law 347.7
Guardianship law 347.6
Guarini, G. Italian poetry 851.45
[1] Guatemala history 972.81
Gubbio, Bosone da Italian fiction 853.14
Gubernatis, Angelo de Italian misc. 858.81
Gudrun German poetry 831.22
Guelphs Italian history 945.04
Guerilla warfare international law 341.3
[1] Guernsey, island of history 942.34
travels 914.234
Guerrazzi, F. D. Italian fiction 853.74
[1] Guerrero, Mexico history 972.7
Guerrini, Olindo Italian poetry 851.87
[1] Guiana, South America history 988
Guicciardini, F. Italian essays 854.34
Guide books 910
Guides, railroad 656
Guidi, Alessandro Italian poetry 851.55
Guidiccioni, Giovanni " " 851.37
[1] Guienne, France history 944.7
Guilds, business political economy 338.6
parish work 256
Guillotine law 343.2
[1] Guinea, Upper, Africa history 966.5
[1] Lower " " 967.1
Guinicelli, Guido Italian poetry 851.13
Guitar music 787.6
[4] Gujerati language 491.47
Gulf of Mexico physical geography 551.463
[1] Gulf States, U. S. history 976
stream physical geography 551.471
Gulfs, hydrography of surveying 526.99
Gullet, diseases of 616.32
Gums and resins chem. tech. 668.4
fossil economic geology 553.29
vegetable drugs 615.335
Gun cotton explosives 662.2
making 683
Gunnery military engineering 623.5
Gunning sports 799
Gunpowder explosives 662.3
manuf. protec. of life 614.832
plot English history 942.061
Guns military engineering 623.4
Gunshot wounds surgery 617.145
Gunter's scale, mathematical instru. 510.8
Gustaf III. Swedish drama 839.7252
Gustation physiology 612.87
Gustavus Adolphus Swedish hist. 948.04
misc. 839.7824
Gut-cleaning air pollution 614.742
Gutenberg history of printing 655.111
Gutierrez, A. G. Spanish poetry 861.54
Gutta percha rubber manufacture 678
serena eye diseases 617.75
Guttiferæ botany 583.163
Guttiferales " 583.16
Gutzkow, K. F. German drama 832.78
Guyot de Provins French satire 847.11
Gyllembourg-Ehrensvärd, T. C. Danish fiction 839.8361
Gyllenborg, G. F. Swedish poetry 839.7146
Gymnasia German schools 379.43
Gymnasiums architecture 725.85
Gymnastics curative 615.82
hygiene 613.71
school hygiene 371.73
vocal elocution 808.5
vocal music 784.9
Gymnoasceæ botany 589.238
Gymnocarpæ " 589.17
Gymnosophists philosophy 181.4
Gymnospermæ botany 585
Gynæcology diseases of women 618.1
Gypsies outcast races 397
Gypsum agriculture 631
economic geology 553.63
lithology 552.53
Gypsy Romany language 397
Gyroscope astronomy 523.28
Habakkuk Bible 224.95
Habeas corpus law 347.1
Habit mental faculties 158
Habitations, human hygiene 613.5
of animals zoölogy 591.52

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Habits animals zoölogy 591.5
customs 390
laboring classes, pol. econ. 331.84
morbid hygiene 613.87
plants physiol. botany 581.5
Hack licenses local government 352.8
Hackländer, F. W. German fiction 833.78
Hadamar von Laber " poetry 831.32
[1] Haddington, Scotland history 941.45
Hades ancient mythology 292
doctrinal theology 236.4
Hadley's quadrant practical astron. 522.41
[1] Hadramaut, Arabia history 953.4
Hæmodoraceæ botany 584.23
Hæmorrhoids, diseases 616.35
Haggai Bible 224.97
[1] Hague, The history 949.2
travels 914.92
Hahn Hahn, I. German fiction 833.76
Hahnemann's theory therapeutics 615.53
Hail storms meteorology 551.55
Haimonskinder, die, German poetry 831.37
Hair anatomy 611.78
diseases of 616.54
dressing customs 391.5
toilet 646
organic chemistry 547
physiology 612.79
pickers' occu., hygiene 613.63
Hakluyt society geography 910.6
Half-timbered walls arch. const. 721.21
way covenant 285.8
Haliburton, T: C. Amer. humor 817.38
Halicarnassus, Greek antiquities 913.3924
Halides organic chemistry 547.7
[1] Halifax, N. S. history 971.6
travels 917.16
Hall, J. English satire 827.33
Halleck, Fitz-Greene Am. poetry 811.31
Halley's method, transits of Venus 523.94
Hallman, K: I., Swedish drama 839.7251
Hallow-eve customs 394
Halls, central library buildings 022.5
city architecture 725.13
exhibition " 725.91
for lectures " 725.83
music " 725.81
public hygiene 613.55
riding architecture 725.88
society student life 371.86
temporary architecture 725.92
town " 725.13
turn " 725.85
Hallucinations 133.2
Halogen group chemistry 546.12
Haloids organic chemistry 547.4
Halorageæ botany 583.398
Halos optics 535.4
Hamamelideæ, botany 583.394
[1] Hamar, Norway history 948.4
[1] Hamburg, Germany, " 943.51
travels 914.351
Hamilton, Alexander Am. oratory 815.21
Sir W: English philos. 192.9
[1] Hamilton Co., N. Y. history 974.752
Hamitic language 493
Hammarsköld, L. Swedish essays 839.7462
Hammers machine tools 621.97
steam machine tools 621.97
[1] Hampden Co., Mass. history 974.42
[1] Hampshire Co., " " 974.42
Hand-books of travel 910
chiromancy 133.6
dressing of ore mining eng. 622.72
human anatomy 611.97
language, deaf and dumb 371.92
railing stair building 694.8
turning lathes 621.94
Handicraft mechanic trades 680
Handling minerals mining engin. 622.61
Hands, artificial surgery 617.57
Handwriting 652
Hanging punishments 343.2
Hangings, textile building 698.7
[1] Hanover, Germany history 943.53
travels 914.353
Hanover, House of, English hist. 942.07
Irish " 941.57
Scottish " 941.07
Hanseatic league history 943.5
[1] Hants, England " 942.27
Happiness ethics 171.4
Hapsburg, house of, Germ. 943.026–.06
Harbor defences fortifications 623.1
engineering 627
Harbors, hydrography of surveying 526.99
Hard labor punishments 343.2
Hardenberg, F. von German fiction 833.63
Hardness of molecules physics 539.53
Hardware 671
Harelip surgery 617.32
Harems in Turkey customs 392.6
Haren, O. Z. van Dutch drama 839.3244
Willem van " poetry 839.3145
Häring, W. German fiction 833.75
Harington, John English satire 827.32
Harlots ethics 176.5
Harmonics analytical geometry 516.56
modern " 513.56
music 781.1
Harmonium musical instruments 786.9
Harmony music 781.3

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Harmony of colors optics 535.6
painting 752
gospels Bible 226.1
Harness-making 685
Harp 787.5
Harper's ferry invasion, U. S. history 973.68
Harpsichord 787.9
Harrington, James English fiction 823.41
Harris, W. T., American philosophers 191.8
Harrison, W. H., presidency of 973.58
Harte, Francis Bret Am. fiction 813.45
Hartford convention U. S. history 973.521
Hartmann von Aue German poetry 831.26
Hartzembusch, J. E. Spanish " 861.56
Harvard university 378.744
Harvesting agriculture 633
[1] Hasa, Arabia history 953.6
Hasheesh ethics 178.8
hygiene 613.82
Hat-making 687
Hatching artificial, incubation 636.5
engraving 762
Hate ethics 179.8
Hats clothing 646
costume 391.4
Hauch, J. C. Danish poetry 839.8164
Hauff, W. German fiction 833.67
Haulage, animal mining engineering 622.65
mechanical, " " 622.66
[1] Haute Garonne, France history 944.86
[1] Loire, " " 944.81
[1] Marne, " " 944.33
[1] Saône, " " 944.45
[1] Savoie, " " 944.49
[1] Vienne, " " 944.66
[1] Hautes Alpes, " " 944.97
[1] Pyrénées, " " 944.78
[1] Havana history 972.91
travels 917.291
[1] Havre, France history 944.25
travels 914.425
[1] Hawaii history 996.9
travel 919.69
Hawaiian language 499
Hawes, S. English poetry 821.25
Hawkesworth, J. " essays 824.65
Hawking sports 799
trade 639
Hawthorne, Julian Am. fiction 813.47
Nathaniel " " 813.33
Hay fever and asthma diseases 616.202
Hayes, R. B., presidency of 973.83
Hayne, Paul Hamilton Am. poetry 811.42
[1] Hayti history 972.94
travel 917.294
Haze meteorology 551.57
Hazing student life 371.82
Hazlitt, W. English essays 824.76
Head **anatomy** **611.91**
art anatomy 743
craniology 573.7
diseases **616**
dress customs 391.5
phrenology 139
surgery **617.51**
Headaches diseases 616.84
Headstones monuments 718
mortuary design 247.3
Healing, divine 265.8
Health affected by soil, hyg. of ground 614.77
boards of local govt. 352.4
public health **614**
laws **hygiene** **613**
lift therapeutics 615.82
of students 371.71
public **614**
resorts hygiene 613.12
Healths, drinking of customs 394.1
ethics 178.3
Hearing acoustics 534.7
anatomy 611.85
asylums for deaf 362.4
diseases **617.8**
ear hospital 362.1
physiology 612.85
senses 152.2
Heart anatomy 611.12
diseases 616.12
membranes of dis. 616.11
Heat, animal physiology **612.5**
diaphoretics 615.743
disinfect. in contag. dis. 614.483
effect on books 025.8
plants 581.54
engines air engines 621.41
geological agents 551.94
imponderable remedies 615.832
meteorology 551.52
of earth 525.2
moon 523.32
stars 523.82
sun 523.72
production, muscular 612.745
physics **536**
Heathen, apologetics against 239.3
art ecclesiology **246.2**
missions to **266**
philosophy vs. the Church 261.2
religions **290**
salvation of 234
Heathenism, non-Christian relig. **299**
Heating, buildings **697**

Topics in black face type are ub-divided. Superior figures refer to the tables at the end of this index.

Heating, domestic econ. 644
houses, sanitary engineer. 628.8
libraries 022.8
physics 536.83
practical chemistry 542.4
steam engineering 621.19
Heaven theology 237.4
Heavenly bodies, figures of 521.14
rotation of 521.15
Hebbel, F. German drama 832.77
Hebraic Sabbath 263.1
Hebrew ancient history 933
" language 492.4
literature 892.4
religion 296
Hebrews Epistles 227.87
modern history 296
Hebrides history 941.17
Hedberg, Frans Swedish drama 839.7265
Hedges landscape gardening 715
Hedonism ethics 171.4
Hegel German philosophers 193.5
Hègelund, P. J. Danish drama 839.8233
Hegesias Greek philosophers 183.5
Heiberg, J. L. Danish drama 839.8262
P: A. " " 839.8258
Heidelberg catechism 238.41
" history 943.46
travels 914.346
Heine, H. German poetry 831.75
Heinrich von Veldeke, Germ. poetry 831.23
Heinrije van Veldeke, Dutch " 839.3112
Heirs law 347.6
[1] Hejaz, Arabia history 953.2
Heldenbuch German poetry 831.29
"Heldenbuch, das" K. v. d. Röhn 831.35
Heliand 839.2
Heliocentric long. and latitude 521.25
place 521.2
Heliometer astronomy 522.45
Heliostat " 522.58
Heliotypes 774
Heliozoa zoölogy 593.13
Hell 237.5
Hellebore irritant poisons 615.93
Hellenic languages, minor 489
Helmers, J. F., Dutch poetry 839.3152
Helminthology zoölogy 595.1
Helps, Sir A. English essays 824.84
Helps for laboring classes pol. econ. 331.85
Hemiplegia paralysis 616.842
Hemiptera insects 595.75
Hemmingsen, Niels Danish misc. 839.883
Hemorrhage in labor obstetrics 618.54
of the lungs diseases 616.243
Hemorrhoids " 616.35
Hemp agriculture 633
manufactures 677
Henri Deux ware pottery 738
Henry I. English history 942.023
II. 942.031
Irish history 941.52
III. English history 942.034
IV. 942.041
V. 942.042
VI. 942.043
VII. 942.051
VIII. 942.052
Henry I. French history 944.021
II. 944.028
III. 944.029
IV. 944.031
Henry I. German history 943.022
II. 943.022
III. 943.023
IV. 943.023
V. 943.023
VI. 943.024
VII. 943.026
Hens diseases of 619.5
poultry 636.5
Hepaticæ botany 588.3
Hepatitis diseases 616.36
Hepatology physiology 612.35
Heptarchy English history 942.01
Heraclitus Greek philosophy 182.4
Heraldry 929.6
[1] Herat, Afghanistan history 958.3
travels 915.83
[1] Hérault, France history 944.84
Herb doctors cures 615.855
Herbariums 580.7
architecture 727.6
Herberay, N: d' French fiction 843.33
Herbert, G. English poetry 821.38
Herculaneum description 913.377
Herder, J; G. von German poetry 831.64
Hereditary diseases hygiene 613.93
genius mental character. 136.3
succession law 347.6
pol. sci. 321.6
Heredity evolution 575.1
hygiene 613.9
mental 136.3
origin of the soul 129.2
spiritual doctr. theol. 233.3
[1] Hereford, England history 942.44
Heresies 273
Heretics, persecutions of 272
[1] Herkimer Co., N. Y. history 974.761
Hermann v. Sachsenheim, Ger. poet. 831.33
Hermanni, N. Swedish poetry 839.7111

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Hermaphrodites **animals** 591.167
man 573.9
Hermeneutics Bible 220.6
Hermetic art alchemy 540.1
Hermits' lives, biography 920.8
relig. biography **922**
Hernia diseases 616.34
Herodotus Greek literature 888.1
Heroism ethics 179.6
Herpetology **598.1**
Herrera, Fernando de Spanish poet. 861.35
Herrick, R. English poetry 821.43
Herring fisheries 639
[1] Hertford English history 942.58
Hertz, Henrik Danish drama 839.8263
[1] Herzegovina history 943.96
Hesiod Greek epic poetry 883.2
[1] Hesse-Darmstadt German history 943.41
[1] Nassau " " 943.58
Hessian fly economic zoölogy 591.69
Heterogenesis alternate generation 591.163
spontan. " 591.161
Heterophagic variation zoölogy 591.153
Hexacorolla " **593.63**
Hexagons geometry 513.16
Hexameters English prosody 426.5
Greek " 486.5
Latin " 476.5
[3] other languages
Hexapoda **zoölogy** **595.7**
Heyse, P. J. L. German fiction 833.85
Heywood, J. English drama 822.21
Hiatus Greek prosody 486.4
Latin " 476.4
[3] other languages
Hibbert lectures religion 290
Hibernation zoölogy 591.54
Hickok, L. P. Amer. philosophers 191.4
Hicksites friends 289.6
[1] Hidalgo, Mexico history 972.4
Hieroglyphics **419**
Egyptian 493.1
High altitude observatories astron. 522.14
church Anglican church 283
license temperance ethics 178.4
pressure hot water heating 697.4
steam " 697.5
schools 379.17
treason law 343
Higher algebra 512.8
education academies 373
colleges 378
numerical equations, algebra 512.22
[1] Highlands, Scotland, description 914.11
history 941.1
Hight of atmosphere 523.58
Hight of buildings ground hygiene 614.784
tide wave, velocity of 525.65
Hights, measurement of surveying 526.94
Highway areas Eng. local gov'm't 352.0427
Highwaymen law 343
Highways, administration 351.811
law 347.2
local government 352.7
road engineering 625.7
transportation 386
travel on, protect. of life 614.862
Hildebrand Italian history 945.03
religious " 270.4
"Hildebrandslied," German poetry 831.11
Hillhouse, J. A. American drama 812.23
Himalayan architecture 722.4
[1] Himalayas physical geography 551.43
travel 915.42
Himyaritic inscriptions 492.917
[4] **language** **492.9**
[4] **Hindi language** **491.43**
Hindoo architecture 722.4
[4] **languages** **491.1**
law **349.54**
philosophy 181.4
religion 294
[1] **Hindostan** **history** **954**
Hinduism 294
[1] **Hindustan** **history** **954**
[4] **Hindustani language** **491.43**
Hip **diseases** **616.7**
surgery 617.58
Hipparion paleontology 569.7
Hippias Greek philosophers 183.1
Hipponax " satire 887.3
Hippophagy hygiene 613.28
Histogenesis **zoölogy** **591.17**
Histology animals 591.8
botany 581.8
human anatomy **611**
Historians' lives English 928.28
Historical atlases **911**
books Bible **222**
charts and tables 902
geography 911
magazines 905
on special subjects see subject.
painting 756
sermons 252.9
societies 906
on special subjects see subject.
theology 209
History **900**
ancient 930
constitutional 342
ecclesiastical 270

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

History general modern 909
literary, general 809
modern 940–999
natural 590
naval see spec. countries.
of civilization 901
philosophy of 901
sacred 220.9
universal 909
[a]. of special topics see subject
Histrionics 792
Hittites history 939.45
Hives skin diseases 616.51
Hjärne, Urban Swedish misc. 839.7832
Hobbes materialism 146
Hobbies
Hoffmann, E. T. W., German fiction 833.64
Hofmannswaldau " poetry 831.55
Hog domestic animals 636.4
styes air pollution 614.762
Hohenstaufen, house of, Ger. hist. 943.024
Hohenzollern " " 943.49
Höijer, B: K: H. Swedish essays 839.7461
Hoisting engines mining engineer. 622.67
machinery mill work 621.86
mining engineering 622.6
of water mining engineer. 622.55
Holberg, Ludvig Danish drama 839.8241
Hölderlin, J. C. F. German poetry 831.67
Holiday opening, library economy 024.4
Holidays hygiene 613.77
school, education 371.23
Holiness doctrinal theology 234.8
Holland, J. G. American essays 814.34
[1] Holland, history 949.2
reformation in, relig. hist. 274.92
travels 914.92
Hollow tile construction building 693.4
floors arch. construction 721.63
Holly system water supply of towns 628.12
Holmes, O. W. American humor 817.32
Holmström, Israel Swedish poetry 839.7134
Holothuroidea zoölogy 593.96
Holstein cattle domes. animals 636.2
[1] duchy of history 943.51
Holtz machine electricity 537.2
Holy alliance European history 940.9
communion 265.3
Ghost theology 231.3
grail legends 398.2
land history, ancient 933
[a] modern 956.9
pre-Israelite history 939.45
travels 915.69
league French history 944.029
orders church 265.4
Holy Roman Empire 943
rood ecclesiology 247.9
scriptures 220
Spirit theology 231.3
water ecclesiology 246.6
Home, H. English essays 824.62
J. " drama 822.64
Home customs 392
education self-education 374
vs. public 373.1
life ethics 173.7
missions 266
relations, customs 392.3
study, societies for 374.8
use of books library reg. 024.6
woman in 396.6
Homer Greek epic poetry 883.1
Homes country architecture 728.6
for aged " 725.56
poor, city " 728.11
country cottages 728.68
tenements 728.12
hygiene 613.51
soldiers' architecture 725.59
Washingtonian " 725.65
Homestead bill U. S. law 347.2
Homicide law 343
Homiletics theology 251
Homilies sermons 252
Homœopathy, therapeutics 615.53
Homologies biology 574
zoölogy 591.4
Homonyms Eng. philology 424
Homoptera entomology 595.75
[1] Honduras, British history 972.82
[1] Central America, history 972.83
travels 917.283
Honesty ethics 174
Honey agriculture 638
Honeymoon customs 392.5
[1] Hong Kong, China history 951.2
travels 915.12
[1] Honolulu history 996.9
travels 919.69
Honor business ethics 174
student 371.81
Honorary degrees colleges 378.25
titles heraldry 927.7
Hood, Robin legends 398.2
T. English humor 827.72
Hoods, academic 378.29
Hooft, Corneliszoon Dutch drama 839.3232
Hoogvliet, Arnold " poetry 839.3143
Hooping cough diseases 616.204
Hoosac tunnel, engineering 622.26
Höpken, A. J. von Swedish misc. 839.7845

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Hopkinsianism Calvinism 284.2
Hopkinson, Francis Am. satire 817.14
Hops agriculture 633
brewing 663.3
Horace Latin lyric poetry 874.5
satire 877.3
Horizon, artificial 522.57
Horn **wind instrument** **788.4**
organic chemistry 547
Horneck, O. von German poetry 831.31
Horned cattle agriculture 636.2
Horns, drinking customs 394.1
Horology **astronomy** **529.7**
watch making 681
Horoscope astrology 133.5
Horse cars railroad engineering 625.6
diseases, veterinary medicine 619.1
domestic animal 636.1
pox diseases 616.955
racing amusements 798
ethics 175.7
railway, engineering 625.6
sociology 386
useful arts 656
shoeing 682.1
training, domestic animals 636.1
veterinary medicine 619.1
zoölogy 599.7
Horsemanship 798
Hortatory theology 243
Horticultural societies 716
agriculture 630.6
Horticulture **716**
Hosea Bible 224.6
Hosiery clothing 646
costumes 391.4
manufacture 677
Hospice of St. Bernard, protec. of life 614.87
Hospital gangrene diseases 616.941
sketches Amer. civil war 973.776
Hospitality ethics 177.1
Hospitals **362**
and asylums, arch. 725.5
hygiene 613.56
marine institutions 362.1
military " 362.1
Host eucharist 265.3
Hot air baths hygiene 613.46
drinks " 613.37
houses agriculture 635
flower culture 716.3
springs physical geology 551.23
water heating 697.4
Hotels 640
architecture 728.5
family, architecture 728.2
Hotels hygiene 613.52
Hottentots description 916.87
Hour glasses horology 529.78
Hours, library regula. for readers 024.3
of labor political economy 331.81
school 371.24
House building **690**
connections sewerage 628.252
drainage " 628.6
drains " 628.235
furnishing domestic econ. 645
of Commons legis. bodies 328.42
correction 364
Lords legis. bodies 328.42
refuge 364
Representatives legis. bodies 328.73
painting building 698.1
Household art, decoration 747
Housekeeping **640**
coöperative 334.4
Houses **architecture** **720**
disinfec. in cont. dis. 614.48
flues in sewerage 628.233
hygiene 613.5
noble heraldry 929.7
pipes on sewerage 628.234
society student life 371.86
Housewifery **640**
Housing of animals animal hygiene 614.94
Houwaert, J. B. Dutch poetry 839.3125
Howard, H. English " 821.28
Howells, W. D. Am. fiction 813.43
Howitzers ordnance 623.4
Huckster licenses local gov. 352.8
Hudson bay territory history 971.2
river description 917.47
Huerta, V. A. G. de la, Span. poetry 861.43
Huet, C. B. Dutch essays 839.3455
Hugh Capet French history 944.021
Hugo, V. M. " drama 842.78
" fiction 843.78
" poetry 841.78
Huguenots church 284.5
lives 922.4
persecutions 272.4
Hulsean lectures apologetics 239.03
Human ability, doctrinal theology 233.4
anatomy **611**
body and mind **130**
body art anatomy 743
depravity doctrinal theology 233.1
faculties psychology **150**
figure, perspective 515.67
habitations hygiene **613.5**
life, protec. fr. accident 614.8

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Immaculate Conception of Christ 232.1
Mary 230.2
Immersion baptism 265.1
Baptist doctrines 230.6
sect **286**
Immigrants colonies 325.1
Immigration **325**
Immoral art ethics 176.7
literature, " 176.8
Immortality, conditional 237.3
doctrinal theology 237.2
metaphysics 128
natural theology 218
of animals 591.51
Impeachment, administration 351.99
constitutional law **342**
criminal law 343
Imperfections crystallography 548.4
Imperial federation, Gt. Br. 354.4201
robes ceremonies 394.4
Implements, agricultural **630**
domestic **640**
Imponderable remedies, therapeu. 615.83
Importation duty free for colleges 337.8
of books, lib. econ. 025.2
Imports commerce 382
Imposition printing 655.27
Impostors humbugs 133.7
Impotence diseases 616.69
Imprecations ethics 179.5
Impregnation physiology 612.63
Impressionist school of painting . 759.9
Impressment of seamen 359
Imprints, fictitious 014
Imprisonment punishments 343.2
Improvisation organ music 786.87
Impulse of water hydraulics 532.58
Impure ice hygiene 613.32
Impurities of well water hygiene 613.32
water works 628.16
Inability, human doctrinal theology 233.4
Incandescence, heat 536.45
Incantations 133.4
Incarnation Christology 232.1
Incas history 985
Incense ecclesiology 247.9
Incest criminal law 343
Inchbald, Mrs. E. English drama 822.67
Incised wounds surgery 617.141
Inclination of equator to ecliptic 525.51
Inclined plane, canal engineering 626.5
machines 531.85
Inclines railroad engineering 625.3
Income, public finance **336**
tax " 336.24
Incomplete coalescence deformities 617.32
Incomplete development, deform. **617.31**
Incrustation, arch. decoration **729.6**
Incrustations on steam boilers 621.18
Incubation, artificial 636.5
Incunabula book rarities 093
Incurables, hospitals for 362.1
architecture 725.51
Indelible inks, chemical technology 667.4
Indemnity international law 341.3
Independence, American U. S. hist. 973.313
Independency, church polity 262.8
Independent angles geodesy 526.51
Independents sects 285.9
Indeterminate equations algebra 512.23
forms calculus 517.22
Index error practical astronomy 522.38
expurgatorius book rarities 098
making, literary methods 029.5
rerums " " 029.5
Indexes, Biblical concordances 220.2
see subj. indexed
India, administration **354.54**
antiquities **913.54**
architecture **720.954**
ancient 722.4
Mohammedan 723.3
botany **581.954**
[1] **British history** **954**
[1] **Farther "** **959**
finance **336.54**
geology **555.4**
history, ancient 934
[1] **modern** **954**
maps **912.54**
rubber manufactures 678
schools, public **379.54**
statistics **315.4**
travel **915.4**
other topics see table 1.
[1] **Indian archipelago history** **991**
Bureau U. S. adm. 353.3
corn agriculture 633
East, languages **491.1**
modern languages **491.4**
legends 398.2
missions **266**
mortality pub. health 614.144
ocean travels 910.4
philosophers 181.4
religions 299.7
Territory, U. S. history 976.6
wars U. S. hist. 973.2
[1] Indiana, U. S. history 977.2
Indians, American **970.1**
education of 371.95
ethnology 572.897

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Indians language 497
[4]Indic languages 491.1
Indicator for steam engines 621.11
Indicators library economy 025.6
Indictments criminal law 343.1
Indigestion medicine 616.33
Indigo chemical technology 667.2
Indium chemistry 546.67
Individual soul, origin of 129
Individuals and the state ethics 172.1
Indo-European languages, minor 491
Germanic " 491
Indoor amusements 793
Indorsement law 347.4
[1]Indre, France history 944.55
[1] et Loire, France " 944.54
Induction balance electricity 537.24
coil " 537.51
magnetism 538.2
of labor obstetric opera. 618.88
reasoning faculty 153.6
spark electricity 537.52
Inductive logic 161
sciences 500
Indulgencies Roman church 282
doctrine 230.2
Industrial arts 600
classes political econ. 331
depressions " " 338.8
drawing 744
economy 330
education 371.42
exhibitions 606
history 609
legislation " " 338.9
museums 606
sanitation 628.5
schools 607
statistics " " 331
Industries chemical technol. 660
useful arts 600
Industry ethics 179.9
Inebriate asylums architecture 725.65
ethics 178.6
Inebriates temperance 178.6
Inequality, diurnal, of tides 525.63
Infallibility, divine 231.6
of the church 262.8
papal eccles. polity 262.13
Roman doctrine 230.2
Roman church 282
schism Old Catholics 284.8
Infancy, psychology of 150
Infant baptism 265.1
education elemen. educ. 372
mortality public health 614.132
Infant salvation 234
therapeutics 615.54
Infanticide customs 392.2
ethics 173.4
law 343
Infantry army 356
Infants, care of 618.6
food for hygiene 613.22
Infection, protection against sanit. 628.513
Infectious diseases of domes. animals 614.91
pathology 616.91
pub. health 614.4
spec. 614.5
Infernal machines explosives 662.2
Infidelity 211
Infiltration of water mining eng. 622.51
Infinite metaphysics 125
Infinitesimal calculus 517.1
Infinitive English syntax 425.8
Greek " 485.8
Latin " 475.8
[3] other languages
Infirmaries architecture 725.51
hospitals 362.1
Inflammation 612.57
surgery 617.22
Inflammatory affections of the skin 616.51
Inflation paper money 332.5
[3]Inflection English philology 425.1
Influenza diseases 616.203
Infusoria zoölogy 593.15
Infusorial earth, petrography 552.57
Ingemann, B. S. Danish poetry 839.8162
Ingenuity inventions 608
Ingersoll, C. J. Am. drama 812.24
Inhalation, adminis. of medicine by 615.64
of dust hygiene of employ. 613.63
gases " " 613.62
Inheritance law 347.6
of soul metaphysics 129.2
Inherited disease hygiene 613.93
mental disability hygiene 613.92
Injections collectors' manuals 579.3
hypodermic 615.63
intra-uterine, obstet. 618.89
medicine 615.6
Injectors steam engine 621.18
Injured, aid to, protection of life 614.88
Injuries, effects of diseases 616.98
results of surgery 617.2
surgery 617.1
to library books, rules 024.8
shelf dept. 025.8
torts 347.5
Injurious animals agriculture 632
zoölogy 591.65

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Intellectual development history 809
influence of ch. 261.5
relation of ch. 377.8
life self-education 374
philosophy 150
Intelligence mental science 151
of animals 591.51
Intemperance ethics 178
Intercepting sewers 628.28
Intercommunication, sociology 380
useful arts 650
Interdicts excommunication 262.9
Interest and usury law 347.7
calculation of arithmetic 511.8
political economy 332.8
securities finance 336.31
tables business manuals 658
Interference optics 535.4
Interior decoration 747
department U. S. adm. 353.3
of earth geology 551.11
walls, incrusted arch. dec. 729.62
[3] Interjections, Greek syntax 485.9
Interlude English drama 822
Interludes organ music 786.84
Intermarriages of families hygiene 613.94
races ethics 173.1
Intermediate state theology 236.4
Interment customs 393.1
premature 614.61
public health 614.61
Intermittent fever pathology 616.936
public health 614.531
Intermolecular forces physics 539.6
Internal affairs **adminis. 351.73**
ear, diseases of 617.88
heat geology 551.12
improvements 620
plastering masonry 693.6
relations church and state 323
revenue laws finance 336.27
windows arch. const. 721.85
International association, The 335.4
coinage 332.43
congresses 341.1
on special topics see subject
copyright private law 341.5
publishing 655.63
ethics 172.4
exchange money 332.45
exchanges lib. econ. 025.2
exhibitions 606
law 341
standard, money 332.43
Interoceanic canals engineering 626.9
Interpolation methods calculus 517.6
Interpolation spherical astronomy 522.75
[3] Interrogatives Latin syntax 475.9
Intersecting lines plane geometry 513.12
planes, solid " 513.32
Intersections of surfaces, " 515.18
Interstate commerce law 385
Intervention **international law 341.6**
Intestines anatomy 611.34
comparative anatomy 591.43
pathology 616.34
physiology 612.33
surgery 617.43
Intolerance, relig., persecutions 272
state ethics 172.3
Intonation music 781.2
Intoxicating drinks, traf. in, ethics 178.4
Intoxication alcoholism 616.861
ethics 178.1
Intra-uterine injections obstetrics 618.89
Intramural interment public health 614.613
Intransigentes, Spanish history 946.08
Intrenchments military engineering 623.1
Intuition ethics 171.2
Intuitionalism, philosophical systems 143
Intuitive faculty 156
philosophy 143
Inundations meteorology 551.48
Invalids medicine 616
Invariants algebra 512.88
Invention of printing 655.11
rhetoric 808.5
Inventions building 690.8
patents 608
Inventors' lives 926
[1] Inverness, Scotland history 941.21
Inverse probabilities 519.1
Inversion of uterus in labor 618.57
Invertebrates, paleontology 562
zoölogy 592
Investigations, administration 351.98
Investiture ecclesiastical polity 262.16
Investitures, war of, 1074-1084 270.4
Investments 332
Invincible armada Spanish history 946.04
Invocation of saints and angels 264.1
Invoices accounts 657
Involution algebra 512.7
arithmetic 511.7
modern geometry 513.53
Iodides mineralogy 549.4
Iodine chemistry 546.15
compounds, mineral. 549.4
Ionia ancient history 939.23
[1] modern " 956.2
Ionic Greek dialects 487.923
order of architecture 729.32

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Jews, disabilities of 296
history, ancient 933
" modern 296
restoration of 296
Jigging mining engineering 622.75
Joan of Arc French history 944.026
Job Bible 223.1
Job work printing 655.26
Jockies horse racing 798
Jodelle, Étienne French drama 842.34
Joel Bible 224.7
Johansson, Lars Swedish poetry 839.7132
John, St. epistle I. 227.94
" II. 227.95
" III. 227.96
gospel of 226.5
knights of 929.711
Revelation of 228
John, King English history 942.033
John I. French history 944.024
II. " " 944.025
Johnson, A., presidency of 973.81
S. English essays 824.63
Joinery, ornamental carpentry 694.7
Joint stock companies law 347.7
Joints anatomy 611.72
calked plumbing 696.6
diseases of medicine 616.72
geology 551.84
injuries to surgery 617.47
mechanical engineering 621.99
of wood work carpentry 694.2
physiology 612.75
riveted plumbing 696.4
rust " 696.6
screw " 696.5
Jokes English humor 827
Jolin J. K. Swedish drama 839.7264
Jonah Bible 224.92
Jongleurs French poetry 841.09
Jonson, B. English drama 822.34
Joseph I. German history 943.051
II. " " 943.057
Joshua Bible 222.2
Joubert, Joseph French essays 844.62
Journalism 070
Journalists, lives of 920.5
Journals mill work 621.82
Journeys around the world 910.4
Jovellanos, G. M. de Spanish misc. 868.42
Jubilee singers of Fisk university 784.7
Judaism 296
vs. Christian church 239.2
Judd, Sylvester American fiction 813.34
Jude epistle, Bible 227.97
Judea ancient history 933
[1] Judea modern history 956.9
Judges, book of Bible 222.3
law courts 347.97
lives 923.4
Judgment, mental faculties 153.5
private, ecclesiastical polity 262.8
theology 236.9
Judicial chemistry law 340.6
combat " 340.3
control administration 351.94
ordeal law 340.3
Judiciary department U. S. govt. 353.5
elective law 347.97
Judith Bible 229.2
Juggernaut 299.14
Jugglery 791
Juglandeæ botany 583.973
Jugurthan war, Roman history 937.05
Julian calendar 529.4
Juncaceæ botany 584.45
Junctions railroad engineering 625.1
sewers 628.251
Junius letters, Eng. satire 827.64
Jupiter astronomy 523.45
mythology 292
[1] Jura, France, history 944.47
Jurassic age geology 551.76
Jurisdiction civil trials 347.98
Jurisprudence 340
medical 340.6
Jury trial law 340.4
Justice 179.9
Justices of the peace law 347.96
Justification doctrinal theology 234.7
Jute agriculture 633
manufactures 677
Juvenal Latin satire 877.7
Juvenile books, see subject.
criminals law 343
literature 028.5
mortality public health 614.133
reformatories 364
Kabala Jewish philosophy 181.3
[1] Kaffraria, Africa history 968.6
[1] Kafirs history 968.6
Kairin therapeutics 615.75
Kaleidoscope optics 535.86
Kalmucks description 915
[1] history 950
Kames, H. H. English essays 824.62
[1] Kamtchatka history 957
Kangaroo zoölogy 599.2
[1] Kansas, U. S. history 978.1
struggle in, U. S. hist. 973.66
Kant critical philosophy 142
German " 193.2

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this Index.

[1] Karpoot, Asia Turkish history 956.6
[1] Kartum, Egypt history 962.6
Kaspar von der Röhn, Germ. poetry 831.35
[1] Kastamuni, Asia Turkish history 956.3
Kate, J. J. L. ten Dutch poetry 839.3156
Keats, J. English " 821.78.
[1] Keewatin, Canada history 971.26
Kellgren, J. H. Swedish poetry 839.7152
Kelsen, S. T. Danish " 839.8137
Keltic ancient history 936
languages 491.6
Kennedy, J. P. Am. fiction 813.32
[1] Kent, England history 942.23
[1] Kentucky, U. S. " 976.9
Kepler's problem astronomy 521.37
Keramics art 738
chemical technology 666.3
Kerosene " " 665.5
inspection, protect. of life 614.834
[1] Kerry, Ireland history 941.96
Ketones chemistry 547.6
Kexél, Olof Swedish drama 839.7253
Key bugle musical instruments 788.46
Keys and locks manufactures 683
mathematical students' honor 371.81
Keyser, Rudolph Danish essays 839.8463
[1] Khiva history 958.5
travels 915.85
[1] Khodavendikyar, Asia history 956.1
[1] Khokan, Turkestan " 958.7
Kidnapping criminal law 343
[1] Kidneys anatomy 611.61
diseases 616.61
physiology 612.46
[1] Kildare, Ireland history 941.85
[1] Kilkenny, " " 941.89
[1] Killarney " " 941.96
travels 914.196
[1] Kincardine, Scotland history 941.26
Kindergarten education 372.2
Kindness ethics 177.7
Kinematics physics 531.1
Kinetic theory of gases 533.7
Kinetics physics 531.3
King, W. English satire 827.47
King Philip's war New Eng. history 974
Kingo, T: Danish poetry 839.8134
[1] Kings Co., Ireland history 941.86
[1] N. Y., " 974.722
Kings absolute monarchy 321.6
bench 347.99
book of, Bible 222.5
constitu. monarchy 321.7
lives 923.1
Kingsley, C. English fiction 823.85
Kinkel, J; G. German poetry 831.82
[1] Kinross, Scotland history 941.34
Kinship genealogy 929.1
[1] Kirkcudbright, Scotland history 941.49
Kissing customs 392.3
Kitchen economy 640
gardening 635
middens archæology 571.93
Kitchens architecture 728.93
[1] Kiva, Turkestan history 958.5
Kjæmpeviser, Danish poetry 839.8112
Kjérkegaard, S. A. Danish essays 839.8462
Klausen, Peder Danish miscellany 839.883
Kleist, H; B. W; von, German drama 832.68
Kleptomania mental disease 132.6
Klinger, F. M. German drama 832.64
Klopstock, F; G. " poetry 831.62
Knightage heraldry **929.7**
Knights of labor, labor organizations 331.88
Malta 929.711
Pythias secret societies 366.2
Templars 929.712
Knitting domestic economy 646
Knives cutlery 672
stone, chipped 571.15
polished 571.25
Knorring, S. M. von, Swedish fiction 839.7361
Know-nothing party, U. S. politics 329.5
Knowledge, theory of 121
unity of 121
Knowles, J. S. English drama 822.72
[1] Konieh, Asia, Turkish history 956.4
[1] Koordistan history 956.7
travels 915.67
Koran Mahometanism 297
[1] Kordofan, Egypt history 962.8
Körner, K; T. German poetry 831.66
Kotzebue, A; F; F. " drama 832.66
Krishna Buddhism 294
[4] Kroatian language 491.83
Ku Klux Klan, political associations 363
Kumiss adulterations 614.324
[4] Kurdish language 491.57
[1] Kurdistan history 956.7
[1] Kurile islands history 952
travels 915.2
Kyrie sacred music 783.22
L. M. Z. formulæ geodesy 526.46
Labels in museums 579.72
Labiatæ botany 583.891
Labiche, E. M. French drama 842.81
Labor, administration 351.83
induction of obstetrics 618.88
laws 338.9
obstetrics 618.4
of children 331.3
party political parties 329.85

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Labor, pathol. of obstetrics 618.5
political economy 331
savers, literary 029.2
statistics political econ. 331
Laboratories architecture 727.5
school equipment 371.67
state adulterations 614.3
Laboratory, chemistry 542.1
work, methods of instruc. 371.38
Laborers' cottages architecture 728.68
occupation hygiene 613.6
Laboring classes political economy 331.8
[1] Labrador history 971.9
Labyrinths prehistoric archæology 571.95
La Calprenède, G. de C. de Fr. fict. 843.43
Lace-making 677
art needlework 746
Lacedæmon ancient history 938.9
Lacerated wounds surgery 617.143
Laceration of genital tract obstetrics 618.55
Lacertilia reptiles 598.11
Lachrymal disorders eye diseases 617.76
secretions zoölogy 591.147
Lacistemaceæ, botany 583.983
Laconia ancient history 938.9
[5] **Laconics English literature** 828
Lacquer work, artistic furniture 749
manufactures 667.7
Lacrosse games 797
Lactation diseases of, obstetrics 618.71
physiology 612.664
Lactometer 614.32
Ladies of the Sacred Heart 271.93
[1] Ladrone islands history 996.7
Lafayette, M. comtesse de, French fict. 843.48
La Fontaine, Jean de " poetry 841.45
Lagerbring, Sven Swedish miscel. 839.7844
La Harpe, J. F. de French drama 842.63
essays 844.61
[1] Lahore, India history 954.5
Lake drainage 627.5
dwellings prehistoric arch. 571.83
[1] George, N. Y. history 974.751
[1] **states, U. S.** " 977
travels 917.7
surveys geodesy 526.99
Lakes, artificial, landscape gardening 714
physical geography 551.48
water supply 628.11
Lalli, Giovambattista Italian satire 857.53
Lamaism 294
Lamartine, A. M. L. de P. de, Fr. poet. 841.74
Lamb, C. English essays 824.75
Lamellibranchiata zoölogy 594.1
La Mennais, H. F. R. de, Fr. essays 844.71
philos. 194.6
Lamentations Bible 224.3
Lamiales botany 583.87
La Motte, A. H. de French drama 842.51
Fouqué, F. German fiction 833.65
Lamp-black air pollution 614.747
holes sewerage 628.253
posts ventilation of sewers 628.232
shells zoölogy 594.8
[5] **Lampoons English satire** 827
Lampreys fishes 597.2
Lamps chemical technology 665.6
[1] Lanark, Scotland history 941.43
[1] Lancashire, England, " 942.72
Lancaster and York. Eng. hist. 942.04
Irish " 941.54
system education 371.41
Lancelet fishes 597.1
Land claims finance 336.13
companies
grants " 336.14
to public schools 379.12
law 347.2
laws political economy 333
political economy 333
public political economy 333.1
slides geology 551.3
surveying 526.9
tenure law 347.2
titles, insurance of 368.8
travel protection of life 614.861
Landed industry administration 351.823
[1] Landes, France history 944.77
Landlord and tenant law 347.2
polit. economy 333
Landrath German local gov. 352.0433
Landscape drawing 741
gardening 710
painting 758
photographs 779
sketching 741
Landtag German central gov. 354.4308
local " 352.0431
Langebek, Jacob, Danish miscellany 839.8842
Langendijk, Pieter Dutch drama 839.3241
Langland, W. English poetry 821.15
Language 400
[3] English, origin of 422
lessons elemen. educ. 372.6
of flowers 716.2
origin of 401
sign deaf and dumb 371.92
hieroglyphics 419.1
universal 408.9
[1] **Languedoc, France history** 944.8
Lantern, astronomical 523.89
magic optics 535.86

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Lanthanum chemistry 546.63
Lanzi, Luigi Italian essays 854.64
[1]Laos, Asia history 959.4
La Peruse, J. B. de French drama 842.33
La Place's functions, integral calculus 517.35
[1]Lapland, Russia history 947.1
[1]La Plata history 982
travels 918.2
Laprade, P. M. V. R. de, Fr. poetry 841.81
Larceny law 343
Lard adulterations 614.313
chemical technology 664.3
refiners' occupation hyg. 613.62
refining air pollution 614.743
Larivey, Pierre de French drama 842.38
Larra, M. J. de F. Spanish fiction 863.51
Larva embryology 591.34
Laryngoscope 616.22
Laryngotomy surgery 617.42
Larynx acoustics 534.7
anatomy 611.22
diseases of 616.22
La Sale, Antoine de French fiction 843.23
La Taille, Jean de " drama 842.36
Late hours hygiene 613.79
Lath, metal plastering 693.66
wooden " 693.65
Lathe work mechanical eng. 621.94
Latin antiquities 913.37
biography 920.037
church 282
classics **870**
epic poetry 873
erotica 874
geography **912.37**
inscriptions 471.7
[4] **language** **470**
literature **870**
lyric poetry 874
[4] **mediæval and modern** **479**
mythology 292
union 332.43
Latitude at sea navigation 527.1
determinations geodesy 526.61
finding **525.41**
geocentric theor. astron. 521.26
heliocentric " " 521.25
variations of " " 521.28
Latium ancient history 937.6
[1] modern " 945.6
Latrines sanitation 628.45
Latter-day saints Mormonism 298
Lattice doors, arch. construction 721.83
Latticed construction carpentry 694.5
Laube, H; German drama 832.76
Laughing gas anæsthetics 615.781
Laughter emotions 157
hysteria 616.852
Laundries architecture 728.93
Laundry domestic economy 648
Laurineæ botany 583.931
Lava lithology 552.21
Lavatories school furniture 371.62
[1]La Vendée French department 944.6
insurrection 944.043
Law **340**
addresses 347.04
and order leagues temperance 178.4
dictionaries 347.03
forms 347.93
merchant 347.7
metaphysics
moral ethics **170**
of corporations 347.7
nations **341**
nature 340.1
special topics see subject.
parish ecclesiastical polity 262.2
reports American **345.4**
English 346.4
schools 340.7
architecture 727.4
Lawn-tennis 796
Lawns 712
Laws, building building 692.9
protection of life 614.85
conflict of 341.5
medical license 614.24
plumbing 696.9
Lawyers ethics 174.3
lives **923.4**
Laxatives cathartics 615.7321
Lay ministry ecclesiastical polity 262.14
Layamon English poetry 821.11
Laying out of towns and streets, eng. 625.7
public health 614.781
Lazarettos contagious diseases 614.45
hospitals 362.1
Lazarists monastic orders 271.77
Lead, black economic geology 553.26
chemistry 546.51
drugs 615.251
manufacture 671
metallurgy 669.4
mining 622.34
ores economic geology 553.44
poisoning toxicology 615.928
roofs building 695.4
water pipes 628.15
Leading cases, American law **345.5**
English " 346.5
on special subjects see subject

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Leading glazing 698.5
Leagues, law and order temperance 178.4
Learned societies 060
buildings, arch. 727.9
Learning
Leases law 347.2
Least squares, computing orbits 521.36
in geodesy 526.5
probabilities 519.8
Leather manufacture 675
stamped building 698.8
Lebrun, P. D. E. French poetry 841.61
[1] Lecce, Italy history 945.76
Lecompton constitution Kan. hist. 978.1
U. S. " 973.63
Le Coq, T: French drama 842.31
Lectern sacred furniture 247.1
Lectionary Anglican ritual 264.032
Lectures, copyright of 655.62
[5] **English oratory** 825
for laboring classes 331.85
halls for architecture 725.83
instruction methods 371.33
library 021.4
popular education 374.5
[8] on special topic see subject
Leeches medicine 616.9688
zoölogy 595.1
[1] Leeds, Eng. history 942.74
travels 914.274
[1] Leeward Islands history 972.97
Leg surgical operations 617.58
Legacies law 347.6
taxation of 336.27
Legal anecdotes 340.9
bibliography 016.34
capacity of persons law 347.1
ethics 174.3
hermeneutics 347
maxims 340.9
status of woman 396.2
tender paper money 332.5
Legendre's theorem geodesy 526.42
Legends folk-lore 398.2
monastic 244
mythology 291
of the Madonna 244
Legerdemain 791
Legislation, American statutes 345
British " 346
comparative 340.5
industrial 338.9
library, founding of libs. 021.8
public health 614.09
sumptuary, social ethics 177.4
Legislative bodies and annals 328
Legitimacy family law 347.6
Legs anatomy 611.98
artificial surgery 617.58
Leguminosæ botany 583.32
Leibnitz German philosophy 193.1
[1] Leicester, England history 942.54
travels 914.254
[1] **Leinster, Ireland history** 941.8
[1] Leipzig history 943.21
travels 914.321
Leitnerieæ botany 583.972
[1] Leitrim, Ireland history 941.71
Lemercier, L. J. N. French drama 842.68
Lemnaceæ botany 584.68
Lemnos ancient history 939.11
[1] modern " 949.91
Lemonade adulterations 614.346
Lemur zoölogy 599.8
Lennep, Jacob van Dutch fiction 839.3354
Lenngren, A. M. Swedish poetry 839.7156
Lennoaceæ botany 583.66
Lens of eye eye diseases 617.74
Lenses optics 535.81
Lénström, K. J. Swedish essays 839.7464
Lent Anglican church 264.031
Lenten mass music 783.27
Lentibularieæ, botany 583.825
Leo III. Byzantine history 949.502
Leon, L. P. de, Spanish poetry 861.33
[1] Leon, Spain, history 946.2
Leopardi, Giacomo Italian poetry 851.75
Leopold I. German history 943.044
II. " " 943.06
Leopold, K. G. af Swedish poetry 839.7157
Lepidoptera zoölogy 595.78
Leprosy pathology 616.998
public health 614.546
Le Sage, A. R., French fiction 843.51
Lesbos ancient history 939.12
[1] modern " 949.92
Lessing, G. E. German drama 832.61
Letter writing 808.6
Lettering, ornamental 745
[3] **Letters English alphabet** 421
[5] **literature** 826
patent patents 608
Lettic languages 491.9
[4] **Lettish "** 491.93
Leucocytes physiology 612.112
Leucocythæmia diseases 616.41
Leucorrhœa " of women 618.17
[1] **Levant history** 956
travels in Asia 915.6
Levees canal engineering 627.4
Level constant, practical astronomy 522.36
Levelling, adjustments geodesy 526.58

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Levelling, barometric geodesy 526.37
spirit 526.36
surveying 526.95
trigonometric 526.38
Lever application obstetrics 618.81
mechanics 531.81
Leviticus Bible 222.13
Lewes, Mrs. G: H: English fiction 823.88
Lewis, M. G. English fiction 823.71
[1] Co., N. Y. history 974.759
Lex mercatoria law 347.7
Lexicography, comparative 413
[3] English language 423
[3] **Lexicons see language**
[2] on special topics see subject
Liabilities of architects building 692.9
contractors " 692.9
owners " 692.9
Lias geology 551.76
Libby prison, U. S. history 973.7712
Libel law 347.5
Liberal Christianity rationalism 211
unitarianism 288
Liberality ethics 179.9
[1] Liberia history 966.6
Liberty, civil law 347.1
political science 323
ecclesiastical polity 262.8
metaphysics 123
of conscience eccles. pol. 262.8
press 323
will mental faculties 159
personal doctrine 233.7
law 347.1
pol. science 323
salvation 234.9
religious church 261.7
state ethics 172.3
Librarian, duties, etc. 023.4
Librarians' lives 920.2
Libraries, architecture 727.8
for working classes
pol. econ. 331.85
lib. econ. 027.6
free public 027.4
general, library economy 027
imaginary book rarities 098
parochial library econ. 027.8
parish work 257
private library econ. 027.1
public administration 351.852
school education 371.64
library economy 027.8
special " " 026
Sunday opening, lib. econ. 024.4
theology 263.7
Libraries, in sense of series, see subject
Library buildings 022
architecture 727.8
catalogues, author 018
dictionary 019
subject 017
economy 020
legislation lib. econ. 021.8
Librations moon 523.33
Librettos opera 782
Libya ancient history 939.77
Lice animal parasites 616.9681
License, local government 352.8
of dentists pub. health 614.24
pharmacists " " 614.24
physicians " " 614.24
taxation 336.27
temperance 178.4
Licenses, maritime commerce 387
Lichens botany 589.1
Licinian laws pol. econ. 333
Roman hist. 937.02
Lidner, Bengt, Swedish poetry 839.7153
Lieder vocal music 784.4
[1] Liege history 949.3
travels 914.93
Lien laws 347.2
Liernur system sewerage works 628.213
Life, animal, painless extinction of 614.971
biology 570
boats protection of life 614.867
ship building 699
conditions of biology 577.4
contingencies, probabilites 519.5
ethics 179.7
future **doctrinal theology** 237
natural " 218
insurance 368.3
probabilities 519.5
metaphysics 111
origin of biology 576
preservers protection of life 614.867
properties of living matter 577
protection of, from accidents 614.8
saving service, protection of life 614.868
transportation 656
sedentary, hygiene 613.65
tables life insurance 368.3
Lifts canal engineering 626.5
Ligatures therapeutics 615.813
Light and air hygiene 613.1
shade architectural design 729.14
shadow, graphics of 515.7
effect on plants 581.1
electric engineering 621.32
physics 537.83

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Light houses engineering 627.9
navigation 656
optics 535.88
protection of life 614.865
infantry military science 356
of earth 525.2
moon 523.32
stars 523.82
sun 523.72
optics **535**
perspective of shadows 515.63
polarization of 535.5
therapeutics 615.831
zodiacal astronomy 523.59
Lighting, electric engineering 621.32
physics 537.83
library buildings 022.7
mines 622.47
windows architecture 729.38
Lightning and lightning rods 537.4
shock surgery 617.12
Lights and fuel domestic economy 644
shades drawing 742
perspective 515.63
chemical technology **665**
ecclesiology 246.6
Lignite economic geology 553.22
Liguria, Italy history, ancient 937.1
[1] modern 945.1
Liliaceæ botany 584.32
Lillo, G. English drama 822.57
[1] Lima history 985
travels 918.5
Limbo eschatology 236.7
Limbs anatomy 611.98
artificial 617.58
Limbus infantum eschatology 236.7
patrum " 236.6
Lime building 691.5
[1] Limerick, Ireland history 941.94
treaty of 941.56
Limes building material 691.5
chemical technology 666.9
economic geology 553.68
Limestone crystalline 552.46
economic geology 553.51
lithology 552.54
[1] Limousin, France history 944.66
Lincoln, A., presidency of 973.7
[1] Lincoln, England history 942.53
Lincrusta paper-hanging 698.8
Lindau, P. German drama 832.85
Line engraving 765
Lineæ botany 583.211
Linear perspective 515.61
Linen manufacture 677
Lines **analytical geometry** **516**
descriptive " **515**
geometry **513**
Ling, P. H. Swedish poetry 839.7161
Linguistics **400**
Linguists' lives 924
Linings, mineral wool masonry 693.67
Link motion mech. engineering 621.84
Linkages machinery 621.84
[1] Linlithgow, Scotland history 941.44
Linnæan system botany 580.1
zoölogy 590.1
Linné, K: von, Swedish miscellany 839.7842
Lintels architectural construc. 721.86
Lions zoölogy 599.7
[1] Lippe, Germany history 943.55
Lippi, Lorenzo, Italian satire 857.54
Liquefaction heat 536.42
Liquid wastes, indus. sanitation **628.54**
Liquids **physics** **532**
Liquor laws administration 351.761
license 178.4
prohibition 178.5
Liquors internal revenue 336.27
manufacture 663
taxation 336.27
traffic in, temperance **178.4**
use of " **178.1**
[1] Lisbon history 946.9
travels 914.69
Liscow, C. L., German satire 837.54
Litanies sacred music 783.26
Litany Anglican church 264.033
Literary addresses 804
on special topics see topic.
æsthetics 801
clubs self-education 374.3
criticism, art of 801
with thing criticised see subject
frauds and forgeries 809
history 809
institutions colleges **378**
men, food for, hygiene 613.21
men's lives **928**
methods library economy 029
[5] **miscellanies, English** **828**
occupations hygiene 613.65
periodicals 805
property law 347.3
publishing **655.6**
societies student life 371.84
style rhetoric 808
Literature **800**
biography of **928**
classical Greek, Latin **880**
mediæval **800**

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Literature **modern** **800**
woman delineated in 396.8
Lithium chemistry 546.34
Lithography engraving 763
Lithology **geology** **552**
microscopical 552.8
Lithotomy surgery 617.46
Lithotrity " 617.46
[1] Lithuania history 947.5
travels 914.75
[4] **Lithuanian language** **491.92**
[1] Little Russia, history 947.7
travels 914.77
sisters of the poor 271.95
Liturgies **264**
Live stock **agriculture** **636**
Liver anatomy 611.36
diseases of 616.36
physiology 612.35
secretions of phys. 612.35
[1] Liverpool history 942.72
travels 914.272
Liverworts botany 588.3
Lives **biography** **920**
Living matter, properties of **577**
Livingston, W: American poetry 811.15
[1] Livingston Co., N. Y. history 974.785
[1] Livonia, Russia " 947.4
[4] **Livonian language** **491.93**
Livy Latin literature 878.4
Lizards reptiles 598.11
Ljunggren, G. H. J. Swed. essays 839.7465
L. M. Z. formulæ **geodesy** **526.46**
Loadstone economic geology 553.3
magnetism 538.1
Loan institutes **polit. economy** **332.3**
systems library " 025.6
[1] Loango, Africa history 967.2
Loans **finance** **336.3**
Loaseæ botany 583.453
Lobelia cerebro spin. poisons 615.98
Lobsters zoölogy 595.38
Local government **administrat.** **352**
histories. See name of place.
taxation for public schools 379.13
taxes finance 336.28
Location of library buildings 022.1
observatories 522.11
Loci in space **analytical geom.** **516.3**
plane " " 516.1
Lock-jaw diseases 616.854
Lock-ups architecture 725.62
Locke, David Ross Am. humor 817.42
J: English philosophy 192.2
sensational philosophy 145
Locking up printing 655.27
Locks and keys manufacture 683
arch. const. 721.88
canal engineering 626.4
Locomotion animal comp. anat. 591.47
communication 656
organs of dis. of **616.7**
physiology 612.76
Locomotives mech. engineering 621.13
railroading 656
Locomotor ataxy diseases 616.83
Locris ancient history 938.3
Locusts economic zoölogy 591.69
pests 632
Lodges, porter's architecture 728.91
Lodging houses for poor 361
Log book seamanship 656
Loganiaceæ botany 583.74
Logarithms 510.8
Logau, F; von German poetry 831.53
Logging timber trade 674
Logic **160**
Logos Christology 232.2
Logotypes printing 655.23
Lohenstein, D. C. German drama 832.52
[1] Loir et Cher, France history 944.53
[1] Loire " " 944.58
[1] Inférieure, " " 944.14
[1] Loiret " " 944.52
Lollards, religious sect 289.9
Lombard Kingdom, Italy history 945.01
street banking 332
[1] Lombardy, Italy history 945.2
Lönberg, Jens Danish drama 839.8235
[1] London, England history 942.1
travels 914.21
[1] Londonderry, Ireland history 941.62
[1] Long Island, N. Y. " 974.721
Longevity animals 591.139
life insurance 368.3
physiology 612.68
probabilities 519.5
statistics 312
Longfellow, H. W. American poetry 811.34
[1] Longford, Ireland history 941.81
Longitude at sea navigation 527.2
determinations geodesy 526.62
geocentric, theor. astr. 521.26
heliocentric " " 521.25
methods of finding **525.46**
variations theor. astr. 521.28
Longus Danish miscellany 839.8811
[1] Loo-choo islands history 952
travels 915.2
Loom, power manufactures 677
Loosjes, Adriaan Dutch fiction 839.3351
Loots, Cornelis " poetry 839.3153

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Lope de Rueda Spanish drama 862.39
Lope de Vega " " 862.31
Lopez de Ayala, Pedro " poetry 861.21
Loranthaceæ botany 583.941
Lord chancellors' lives 923.442
Lord's day 263.3
prayer 226.9
supper sacraments 265.3
Loris, Guillaume de French poetry 841.18
[1] Lorraine, France history 944.38
[1] Germany " 943.45
Loss of animal heat physiology 612.52
Lost books book rarities 098
library economy 024.8
[1] Lot, France history 944.73
[1] et Garonne, France history 944.76
Lothaire I. German history 943.01
II. " " 943.023
Lotteries ethics 174.6
history of 174.6
Lotus Egypt. religion 299.31
Lotze German philosophy 193.8
Louis VI., French history 944.022
VII. " " 944.022
VIII. " " 944.023
IX. " " 944.023
X. " " 944.024
XI. " " 944.027
XII. " " 944.027
XIII. " " 944.032
XIV. " " 944.033
XV. " " 944.034
XVI. " " 944.035
XVIII., " " First empire 944.05
" " Restoration 944.061
I. German " 943.01
II. " " 943.021
III. " " 943.021
IV. " " 943.026
Napoleon, French history 944.07
Philippe " " 944.063
[1] Louisiana, U. S. history 976.3
[1] Louisville, Ky. " 976.9
travels 917.69
[1] Louth, Ireland history 941.82
Louvre gallery, art galleries 708.4
Love ethics 177.6
feasts pub. worship 264.8
of God theology 231.6
Lovelace, R. English poetry 821.45
[1] Low countries history 949.2
[4] Dutch language 439.3
German literature 839.1
[4] Latin language 479
literature 879
pressure hot water heating 697.4
Low pressure steam heating 697.5
Lowell, James Russell Am. poetry 811.37
[1] Lower California, Mexico history 972.2
empire Byzantine 949.5
extremities anatomy 611.98
surgery 617.58
Loyalty state ethics 172.1
[1] Loyalty Islands history 993.3
[1] Lozère, France " 944.81
[1] Lubeck, Germany " 943.17
Lubrication mechan. engineering 621.89
Lucan Latin epic poetry 873.2
Luce de Lancival, J. C. J. Fr. poetry 841.64
Lucernariae zoölogy 593.74
Lucian Greek literature 888.7
Lucidor Swedish poetry 839.7132
Lucilius, Caius Latin satire 877.1
Junior " poetry 871.7
[1] Lucknow, India history 954.2
travels 915.42
Lucretius ancient philosophy 187
Latin poetry 871.1
Ludwigslied German poetry 831.13
Luke gospel 226.4
Lull, Raimon Catalan poetry 849.9111
Lumber building material 691.1
manufacture 674
Lunacy law 347.1
mind and body 132.1
Lunar caustic, therapeutics 615.775
methods of finding longitude 525.49
tables 523.33
Lunatic asylums 362.2
Lungs admin. of med. by 615.64
anatomy 611.24
capacity of physiol. 612.24
diseases of 616.24
functions of " 612.29
absorption 612.385
Luray caverns, description 551.44
Lusitania history 946.9
Lute stringed instruments 787.6
Lutheran church 284.1
confession creeds 238.4
Lutherans' lives 922.4
Luxemburg, house of Germ. hist. 943.026
Luxury hygiene 613.88
Lycanthropy insanity 132.1
Lyceum Greek philosophy 185
Lyceums self-education 374.3
Lycia ancient history 939.28
Lycophron Greek poetry 881.3
Lycopodinæ botany 587.9
Lycurgus Greek oratory 885.8
Lydgate, J. English poetry 821.21
Lydia ancient history 939.22

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Lying **ethics** 177.3
Lying-in hospitals 362.1
architecture 725.51
Lyly, J: English fiction 823.3
Lymphatic system **anatomy** **611.4**
diseases of **616.4**
surg. opera. 617.44
Lymphatics anatomy 611.42
diseases of 616.42
Lynch law 343.2
Lyndsay, D. English poetry 821.26
[1] Lyonnais, France history 944.58
[1] Lyons history 944.58
travels 914.458
[5] Lyric poetry, English 821.04
Greek **884**
Latin **874**
Lysias Greek oratory 885.2
Lyskander, Klaus Danish misc. 839.883
Lythrarieæ botany 583.441
Lytton, E. G. B. English fiction 823.84
Mabinogeon Welsh literature 891.661
[5] **Macaronics** **English literature** **827**
Macaulay, T. B. " essays 824.83
Maccabees Bible 229.7
McCosh, James Am. philosophers 191.5
Macedonia Greek history 938.1
Macedonian dialect Greek lang. 487.81
supremacy Gr. history 938.07
Machiavelli, Niccolò Italian drama 852.31
essays 854.31
Machine engraving 768
shops, architecture 725.43
Machinery **engineering** **621**
in industry pol. econ. 338.4
Machines, distributing printing 655.28
hydraulic **532.8**
mechanics **531.8**
modulus of physics 531.43
practical printing 655.36
type-setting 655.28
Machinists' occupation hygiene 613.66
Mackenzie, G. English fiction 823.43
H. " " 823.65
Mackerel fishery 639
Mackintosh, J. English essays 824.71
McMahon Third republic 944.08
Macpherson, J. English poetry 821.66
Mad houses 362.2
[1] Madagascar history 969
[1] Madeira Island " 946.98
Madison, J., presidency of 973.51
[1] Madison Co., N. Y. history 974.764
Madness mind and body 132.1
Madonna in art 709
mariolatry 230.2
[1] Madras, India history 954.8
travels 915.48
Madreporaria zoölogy 593.66
[1] Madrid history 946.4
travels 914.64
Madrigal music 784.1
Maerlant, Jacob van Dutch poetry 839.3111
Maffei, F. S. marchese di, Ital. drama 852.56
Magazines **general periodicals** **050**
literary 805
[2] special subject see subject
[1] Magdeburg, Prussia history 943.18
travels 914.318
Magellan straits travels 918.2
Maggots parasitic diseases 616.967
Magic lanterns, optics 535.86
natural **133**
squares, mathematics 511.61
Magicians lives 920.9
Magistrates law 347.96
Magna charta constitutional history 342.42
English history 942.033
Magnesium chemistry 546.46
group **546.44**
Magnetic machines 538.8
needle 538.7
observations 538.7
separation mining 622.77
surveys " 622.15
telegraph **654**
Magnetism **538**
animal, mind and body 134
terrestrial 538.7
Magneto-dynamos electricity 537.83
Magnets properties of 538.1
Magnifiers optics 535.82
Magnitude of stars 523.82
Magno, Celio Italian poetry 851.44
Magnoliaceæ botany 583.114
Magyar language 494
Magyars history 943.91
Mahabharata Sanscrit literature 891.2
Mahometanism 297
[1] Mahrah, Arabia history 953.4
Mails post office 383
Maimonides, oriental philosopher 181.3
[1] **Maine, France** **history** **944.16**
[1] et Loire, France " 944.18
[1] **Maine, U. S.** **history** **974.1**
Maine law temperance 178.5
Mains and pipes water works 628.15
Maistre, Xavier de French fiction 843.64
Maize agriculture 633
Majolica pottery 738
[1] Majorca history 946.7
travels 914.67

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Making ready, printing 655.32
[1] Malabar history 954.8
travels 915.48
[1] Malacca history 959.5
Malachi Bible 224.99
Malacology **594**
Malacostraca zoölogy **595.36**
[1] Malaga history 946.8
travels 914.68
Malaria hygiene 613.14
marshes 614.772
Malarial fever, diseases 616.936
public health **614.53**
Malarious soils " " 614.775
[1] Malay archipelago history 991
travels 919.1
[1] peninsula history 959.5
Polynesian languages 499
[1] Malaysia history 991
Male functions of generation 612.61
Malebranche French philosopher 194.2
Males, mortality of public health 614.142
Malformation of teeth dentistry 617.64
Malformations, animal comp. anat. 591.159
human, deformities **617.3**
nat. hist. of man 573.9
vegetable botany 581.22
Malherbe, François de Fr. poetry 841.41
Malignant tumors diseases 616.994
Malleability molecular physics 539.51
Malmström, B. E. Swedish essays 839.7463
Malpighiaceæ, botany 583.214
Malposition of teeth dentistry 617.64
Malpractice law 343
public health 614.26
Malt liquors brewing 663.3
[1] Malta history 945.8
Malta, knights of 929.711
Malteries architecture 725.42
Malthusianism population 312
Malvaceæ botany 583.17
Malvales " **583.17**
Mamelukes Egyptian history 962
Mamiani della Rovere, T. It. essays 854.76
Mammalia paleontology **569**
zoölogy **599**
Mammary glands anatomy 611.69
secretion animals 591.146
Mammoth Cave physical geography 551.44
Mammoth paleontology 569.6
zoölogy 599.6
Man, antiquity of prehist. arch. **571**
nat. hist. of man 573.3
doctrinal theology **233**
ethnography **572**
in the iron mask biography 920.8
[1] Man, Isle of history 942.89
mammals 599.9
mental characteristics **136**
faculties **150**
natural history of **573**
origin of evolution 575.8
nat. hist. of man 573.2
natural theology 213
physiology of **612**
Management in pregnancy 618.24
library economy 025
of normal labor 618.44
state properties 336.11
puerperal state 618.6
Manasses, prayer of Apocrypha 229.6
[1] Manche, France history 944.21
[1] Manchester, England history 942.72
travels 914.272
[1] Manchuria, China history 951.8
Mandeville, Bernard de, Eng. humor 827.53
Mandolin stringed instruments 787.6
Manetti, Antonio Italian fiction 853.23
Manfredi, Eustachio " poetry 851.56
Mangabotti, Andrea dei, Italian fict. 853.24
Manganese, chemistry 546.71
ores economic geology 553.46
Manholes in sewers 628.253
Mania, mind and body 132.1
puerperal obstetrics 618.76
Maniacs lives 920.8
Manichæism heresies 273.2
Manilius, Marcus Latin poetry 871.5
Manipulation practical chemistry **542.2**
[1] Manitoba, Canada history 971.27
Manly exercises out-door sports **796**
Manners and customs, general **390**
for local see special countries
Manometer pneumatics 533.82
Manor houses, architecture 728.83
Manors political economy 333.3
Manrique, Jorge Spanish poetry 861.24
Mansard roofs, arch. construction 721.59
design 729.35
Mansions architecture **728.3**
Manslaughter law 343
Månsson, Peder Swedish miscellany 839.781
Mantels fixed furniture 729.95
Manual training education 371.42
Manuals, business commerce 658
collectors' biology **579**
legislative U. S. 328.738
[2] special see subject
Manuel, Juan, Spanish miscellany 868.13
Manufactories architecture **725.4**
Manufacture of explosives protection of life 614.831

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Manufactures 670
administration 351.824
chem. technology 660
production 338
public health 614.7
Manufacturing works engineering 621.7
Manure, stable air pollution 614.761
Manures agriculture 631
sewage 628.38
Manuscript catalogs library econ. 025.3
Manuscripts book rarities 091
copyright 655.62
diplomatics 417
Latin diplomatics 471.7
[3] other languages
selection publishing 655.51
[4] **Manx language** 491.64
Manzoni, Alessandro Italian fiction 853.72
poetry 851.73
Map drawing in schools 910.7
projection, geodesy 526.8
Maps 912
astronomical, general 524
moon 523.39
planets 523.49
star 523.89
sun 523.79
school apparatus 371.63
[4] **Marathi language** 491.46
Marble economic geology 553.51
inscriptions 417
Greek 481.7
Latin 471.7
[3] other lang.
lithology 552.46
sculpture 731
March, Ausias, Catalan poetry 849.9131
March and march form music 786.44
[1] Marche, France history 944.68
[1] Marches, Italy " 945.6
Marchetti, Giovanni Italian poetry 851.74
Marcus Aurelius, stoic philosopher 188.8
Marenco, Leopoldo Italian drama 852.84
[1] Margiana ancient history 939.63
Marguerite de Navarre Fr. fiction 843.31
Marian persecutions in England 272.6
Mariana, Juan de Spanish misc. 868.31
Marie de France French poetry 841.13
Marine animals 591.92
architecture ship building 699
naval eng. 623.8
corps navy 359
engines 621.12
insurance 368.2
law 347.7
plants 581.92
Mariners' compass magnetism 538.7
occupation hygiene 613.64
Marini, Giovambattista It. poetry 851.52
Mariolatry worship of Virgin 230.2
Marionnettes amusements 791
Maritime affairs naval science 359
discovery 910.4
law 347.7
quarantine public health 614.461
surveying 526.99
Marivaux, P. C. de C. de Fr. drama 842.54
fiction 843.52
Mark, gospel of 226.3
Market gardening agriculture 635
Markets architecture 725.26
cattle architecture 725.27
domestic economy 643
Marking system education 371.26
Marks political science 321.2
Marl lithology 552.54
Marlowe, C. English drama 822.32
Marmarica ancient history 939.76
[1] Marne, France history 944.32
Marnix, Philipp Dutch poetry 839.3127
Maronites sects 281.5
Maroons history of Jamaica 972.92
Marot, Clement French satire 847.31
Mar-prelate controversy Puritans 285.9
Marque and reprisals intern. law 341.3
[1] Marquesas Islands history 996.3
Marquetry artistic furniture 749
cabinet work 684
Marriage customs 392.5
ethics 173.1
law 347.6
registers genealogy 929.3
sacrament 265.5
vital statistics 614.17
Marryat, F. English fiction 823.78
Mars planets 523.43
Mars' seasons, astronomy 525.54
[1] Marseilles history 944.91
travels 914.491
[1] **Marshall islands history** 996.8
Marshes, hygiene of public health 614.772
physical geology 551.49
Marsipobranchii fishes 597.2
Marston, J. English comedy 827.34
Marsupialia mammals 599.2
Marsupialida zoölogy 593.76
Martial Latin satire 877.6
Martial law 344
Martinez de la Rosa, F., Span. drama 862.51
[1] Martinique history 972.98
travels 917.298
Martorel, Joanet Catalan fiction 849.933

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Martyrs **persecutions** **272**
Marvel, Ik American miscellany 818.32
Marvell, A. English satire 827.43
Mary, blessed virgin, Rom. Cath. doc. 230.2
Queen of Eng. Eng. history 942.054
Scots Scottish " 941.05
[1] Maryland, U. S. history 975.2
Mascheroni, Lorenzo It. poetry 851.62
Masks dramatic music 782.9
Mason and Dixon's line slavery 326.973
Masonry, anti secret societies 366.1
building **693**
lining, mining 622.28
roofs architecture 721.52
village houses arch. **728.6**
Masons secret societies 366.1
Masquerades amusements 793
social customs 394.2
Mass Catholic ritual 264.025
sacred music 783.2
law of gravity 531.54
of earth 525.11
recitative music 784.2
[1] **Massachusetts, U. S. history** **974.4**
Massage therapeutics 615.82
Massinger, P. English drama 822.37
Mast-making ship-building 699
Master and servant family ethics 173.8
law 347.6
Mastersingers German poetry 831.38
Mastitis obstetrics 618.71
Mastodon paleontology 569.6
Mastoid cells ear diseases 617.87
[1] Matamoras history 972.1
Match-makers' occupation hygiene 613.62
Matches chemical technology 662.5
Materia medica 615.1
Materialism philosophy 146
Materials **building** **691**
for clothing hygiene 613.481
library book-binding 025.7
buildings 022.2
strength of, engin. 620.1
molec. physics 539.4
Maternity ethics 173
hospitals 362.1
architecture 725.51
medicine **618**
Mathematical crystallography 548.7
drawing 744
instruments 510.8
probabilities 519.2
tables 510.8
theory, gravity exper. 526.71
of music 781.1
tides 525.61
Mathematicians' lives 925.1
Mathematics **510**
Matins Catholic ritual 264.023
Matriculation schools 371.21
Matter metaphysics 117
physics 530.1
properties of living **577**
Matthew, gospel of 226.2
Matthews, Cornelius Am. drama 812.32
Matthias German history 943.035
Mattias, Canon Swedish miscellany 839.781
Mauritania ancient history 939.71
[1] Mauritius history 969
Mausoleums 718
Maxima and minima algebra 512.3
calculus 517.27
geometry 513.19
Maximilian I. German history 943.029
II. " " 943.033
[5] **Maxims** **English literature** **828**
law 340.9
Maya architecture 722.9
civilization Mexican history 972.015
language 497
Mayaceæ botany 584.37
[1] Mayenne, France history 944.16
Maynard, François French poetry 841.42
[1] Mayo, Ireland history 941.73
Mayor French local gov. 352.0447
Mazourka piano music 786.44
Meal mills architecture 725.47
Meals domestic economy 643
Mean time solar and sidereal day 529.1
value probabilities 519.6
Measles diseases 616.915
public health 614.523
Measurements, electrical 537.7
practical chemistry 542.3
Measures and weights, administration 351.821
meteorology 389
Measuring instruments " 389
physics 530.8
of angles, crystallography 548.7
surveying 526.93
distances " 526.92
heat electric methods 536.53
heights surveying 526.94
light optics 535.2
ventilation mines 622.46
Meat, fresh, inspection of, pub. health 614.317
preservation of chem. tech. 664.9
preserved inspection of, pub. health 614.319
[1] Meath, Ireland history 941.82
Meats as food, hygiene 613.28
[1] Mecca, Arabia history 953.2

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Mecca, Arabia travels 915.32
Mechanic arts and trades **680**
Mechanical drawing 744
engineering **621**
equivalent heat 536.7
haulage mining 622.66
injuries, effects of 616.982
musical instruments **789**
preparation, mining **622.7**
remedies therapeu. **615.81**
trades **680**
Mechanics' institutes exhibitions 606
liens law 347.2
lives **926**
physics **531**
Mechanism engineering **621.8**
of labor obstetrics 618.41
[1] Mecklenburg, Germany history 943.17
Medallion windows, arch. decoration 729.82
Medallions numismatics 737
Medals carving 736
numismatics 737
Media ancient history 935.3
Medical analysis chemistry **543.4**
biography 926.1
botany econ. botany 581.63
materia medica **615**
diagnosis **616.07**
education 610.7
state control of 614.21
electricity, physics 537.87
ethics 174.2
jurisprudence 340.6
museums 610.77
police 614.29
practice pathology **616**
state control of 614.25
schools 610.71
societies 610.6
zoölogy **591**
Medicated baths, admin. of medicine 615.67
Medication, hypodermic 615.63
Medici, Lorenzo de Italian poetry 851.23
Medicinal use of stimulants temperance 178.1
Medicine **610**
chemical analysis **543.4**
economic botany 581.63
zoölogy 591.63
preventive, pub.health 614
State control of, pub. health 614.2
veterinary 619
Medicines, general action thera. 615.5
grouped by effects 615.7
patent adulterations 614.353
Medicines, patent State control 614.27
Medico-legal relations 614.23
Medieval architecture **723**
art, history of 709
customs and costumes **390**
designs **745**
Europe history **940.1**
[3] **Latin** **479**
philosophy **189**
sculpture 734
therapeutics 615.89
Meditations theology 242
Mediterranean sea physical geology 551.462
travels 910.4
Mediums spiritualism 133.9
Medo-Persia ancient history **935**
Medulla oblongata anatomy 611.82
Medusæ zoölogy **593.7**
Meerschaum econ. geol. 553.61
Megaric philosophy 183.6
Megaris ancient history 938.4
Megatherium paleontology 569.3
Megrim diseases 616.857
Melancholy mind and body 132.3
[1] Melanesia history 993
travels 919.3
Melaphyr lithology 552.39
Melastomaceæ botany 583.43
[1] Melbourne history 994.5
travels 919.45
[1] Meliaceæ botany 583.251
Meliorism philosophical systems 149.5
Melissus Greek philosophy 182.3
Melodeon music 786.9
Melody theory of music 781.2
Melville, Herman American fiction 813.36
Membrana tympani ear diseases 617.85
Membranes, admin. of medicine by 615.66
of the heart diseases 616.11
Memoirs biography **920**
scientific societies **506**
Memorial day U. S. civil war 973.768
sermons biography **920**
sermons 252.9
Memory in animals zoölogy 591.51
mental derangements 132.8
faculties **154**
Mena, Juan de Spanish poetry 861.22
Menageries zoölogy 590.7
Menander Greek drama 882.6
Mencius Oriental philosophers 181.1
Mendoza, D. H. de Spanish poetry 861.36
I. L. de " " 861.23
Menedemus Greek philosophers 183.7
Meninges, cerebro-spinal diseases 616.82
of the brain anatomy 611.81

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Meninges of the spinal cord, anatomy 611.82
Meningitis diseases 616.82
Menispermaceæ botany 583.116
Mennonite church 289.7
Menstruation diseases of women 618.17
physiology 612.662
Mensuration arithmetic 511.8
surveying 526.9
Mental capacity of women, education 376.2
mind and body 136.1
characteristics 136
derangements medicine 616.8
mind and body 132
development education 370
disability, inherited hygiene 613.92
faculties 150
of animals zoölogy 591.51
healing 615.851
heredity mind and body 136.3
hygiene 131
overwork mental hygiene 131
philosophy 150
photographs 139
physiology mind and body 131
science 150
Menzini, Benedetto Italian satire 857.56
Mercantile law 347.7
libraries 027.2-3
manuals 658
rules arithmetic 511.8
theory and practice 658
Mercersburg theology doctrine 230.41
Merchant service, ocean trans., sociol. 387
Merchants business ethics 174.4
lives 923.8
Mercurials cathartics 615.7326
Mercury chemistry 546.58
materia medica 615.258
metallic poisons 615.927
metallurgy 669.7
ores economic geol. 553.45
planets 523.41
transits astronomy 523.91
Mercy, sisters of 271.92
Meridian circles astron. instrum. 522.33
line practical astronomy 522.31
spherical " 522.76
Meridional instruments 522.3
Mérimée, Prosper French fiction 843.81
Merino sheep domestic animals 636.3
[1] Merioneth, Wales history 942.92
Merovingian dynasty, French history 944.01
Mesentery anatomy 611.38
diseases of 616.38
Mesmerism mind and body 134
Mesopotamia, ancient history 935.8
Messala Corvinus Latin oratory 875.5
Messenia ancient history 938.9
Messenius, Johan Swedish drama 839.7221
Messiah doctrinal theology 232.1
Metabolism of plants 581.13
Metagenesis animals 591.163
Metal lath masonry 693.66
roofing, building 695.4
Metallic ceilings architecture 721.74
doors " 721.82
floors and flooring " 721.64
ores econ. geol. 553.3-4
poisons therapeu. 615.925
roofs architecture 721.54
building 695.4
salts emetics 615.731
tractors cures 615.856
tremor diseases 616.862
Metallurgy 669
Metals building materials 691.8
coinage 332.41
history 669
inorganic chemistry 546.3
manufactures 671
mining 622.34
organic chemistry 547.9
transmutation of 540.1
Metamorphic rocks geology 552.4
Metamorphism physical geology 551.6
Metamorphosis botany 581.34
of insects 595.7
zoölogy embry. 591.34
variation 591.151
Metaphors rhetoric 808
Metaphysics 110
Metempsychosis metaphysics 129.4
Meteoric points astronomy 523.53
showers 523.53
Meteorites lithology 552.6
Meteorology 551.5
natural history of man 573.4
Meteors and comets 523.56
astronomy 523.5
systems of 523.54
Meter weights and measures 389
[3] Meters Eng. prosody 426.5
water 628.17
Method of directions geodesy 526.54
exhaustions calculus 517.1
independent angles geod. 526.51
least squares orbits 521.36
probabil. 519.8
repetitions, geodesy 526.56
Methodist church 287
Episcopal church 287.6
Methodists' lives 922.7

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Methodology metaphysics 112
Methods, literary lib. econ. 029
of **education** **371**
statistics 311
studying science 507
surveying 526.91
teaching chemistry 540.7
Metric system intern'l measures 389
Metritis obstetrics 618.73
Metrology 389
[1] Metz history 943.45
travels 914.345
Meung, Jean de French poetry 841.18
[1] Meurtha, France history 944.39
[1] Meuse " " 944.38
Mexican Indians **970.1**
war Mexican history 972.05
U. S. " 973.62
Mexico **administration** **354.72**
antiquities **913.72**
architecture **720.972**
botany **581.972**
[2] city history 972.5
travels 917.25
finance **336.72**
geology **557.2**
gulf of phys. geol. 551.463
[2] **history** **972**
maps **912.72**
schools, public **379.72**
statistics **317.2**
travel **917.2**
treaties **341.272**
other topics see table 1
Mezzotint 766
Micah Bible 224.93
Michael VI. Byzantine history 949.502
Michael Angelo, jr. Italian drama 852.51
Michel, Jean French " 842.22
[1] Michigan, U. S. history 977.4
[1] Michoacan, Mexico history 972.3
Micrembryeæ **botany** **583.925**
Microbes " 589.95
Micrometers astronomy 522.53
[1] Micronesia history 996.5
Micro-organisms theory of disease 616.01
Microphone 537.82
Microphotography microscopy 578.4
photography 778
Micropyle zoölogy 591.172
Microscopes **578**
optics 535.82
Microscopic life invertebrates 592
material, prep. of 578.6
Microscopical analysis of water 613.33
Microscopy **578**
Microscopy animal histology 591.8
lithology **552.8**
study of disease 616.077
vegetable histology 581.8
Microspermeæ **botany** **584.1**
Microtome microscopy 578.4
Middens and privies scavenging 628.41
kitchen prehist. arch. 571.93
Middle ages European history 940.1
ear, diseases of **617.84**
High German language 437.02
poetry 831.2
States, U. S. history **974**
[1] Middlesex, England " 942.1
[1] Co., Mass. " 974.44
[1] Midlands, England history 942.4–5
Midwifery, antiseptics in 618.89
obstetrics **618.2**
Migrations of animals 591.52
men ethnology 572.3
Mikkelsen, Hans, Danish miscellany 839.8823
Milá y Fontanals, M., Span. miscel. 868.53
[1] Milan history 945.2
travels 914.52
Mildew **botany** **589.2**
Military academies, e. g. West Point 355.07
and naval arts 355
antiquities 355.09
architecture, fortifications 623.1
biography **923.5**
engineering **623**
history 355.09
Amer. civil war 973.74
of special countries see country
hospitals 362.1
hygiene 613.67
law 355
organization in schools 371.43
pensions 351.5
religious orders 929.7
roads and bridges 623.6
science **355**
signals 623.7
surgery 617.99
surveying 526.99
Militia 355
Milk analysis adulterations 614.321
chemistry 543.2
and its products adult. **614.32**
cure therapeutics 615.854
dairy 637
fever obstetrics 618.71
physiological zoölogy 591.146
Mill, John Stuart British philos. 192.7
Mill dams hydraulic eng. 627.8
water engines 621.29

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Mill gearing and machinery 621.85
stones mechan. eng. 621.92
work engineering 621.8
Millennium theology 236.3
Miller, Joaquin American poetry 811.45
Millerites 289.3
Millers' occupation hygiene 613.63
Millevoye, C: H. French poetry 841.67
Millinery clothing 646
Milling tools 621.94
Mills and manf. works eng. 621.7
cotton, woolen, etc. 677
flour meal and feed arch. 725.47
paper " 725.46
manufactures 676
textile " 725.41
wood-working " 725.44
Milton, J. English poetry 821.47
[1] Milwaukee, Wis. history 977.5
travels 917.75
Mimetic arts 792
variation animals 591.155
Mimicry 177.1
Mind 150
and body 130
cure therapeutics 615.851
in animals zöology 591.51
readers' lives 920.9
reading mesmerism 134
Mine cars 622.63
fires 622.82
surveying 622.14
Mineral cements chem. technology 666.9
economic geology 553.68
irritant poisons, therapeu. 615.92
oil refining air pollution 614.724
oils chemical technology 665.4
economic geology 553.28
springs economic geol. 553.7
surveys 622.13
trades air pollution 614.72
veins ore deposits 553.19
waters adulterations 614.348
artifi. chem. tech. 663.6
economic geology 553.7
hygiene 613.38
therapeutics 615.79
wool linings masonry 693.67
Mineralogy 549
determinative 549.1
of the Bible 220.8549
Minerals rock determination 552.81
Mines, admin. of government 351.823
military eng. 623.2
mining 622
ownership, political economy 333.8
Mines, suffocation in protec. of life 614.82
Miniatures painting 757
Minima and maxima algebra 512.3
geometry 513.19
Mining companies mining eng. 622.06
dangers and accidents, eng. 622.8
engineering 622
laws 622.007
practical 622.2
products political economy 338.2
prospectuses 622.19
Minister eccles. polity 262.14
Ministerial authority " " 262.8
Ministers French government 354.4404
Ger. state " 354.4308
lives 922
Ministration to sick and dead 265.8
Ministries of state architecture 725.12
war " 725.12
Ministry ecclesiastical polity 262.1
German gov. 354.4306
lay 262.14
parish work 258
religion 250
Minnesingers German poetry 831.2
[1] Minnesota, U. S. history 977.6
[1] Minorca history 946.7
travels 914.67
Minority representation polit. sci. 324.2
Minors law 347.6
Minot, L. English poetry 821.14
[5] Minstrelsy " " 821
negro vocal music 784.7
Mints political economy 332.46
Minute books curiosa 099
Miocene period geology 551.782
Miracle plays Eng. literature 822.1
general history 809.2
religion 244
theatre 792
Miracles doctrines 231.7
New Testament 226.7
post-Biblical 231.7
Mirage optics 535.3
Mirrors " 535.87
Miscarriage obstetrics 618.39
Miscegenation, ethics 173.1
hygiene 613.9
law 347.6
[5] Miscellanies see subjects
[5] **Miscellany English literature 828**
Misers, lives of 920.8
Mishna Judaism 296
Missals Catholic ritual 264.025
illuminated 096
Missing link origin of species 575.8

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Missionaries, lives of **922**
Missionary schools 377.6
Missions, city **266**
home and foreign **266**
music for sacred music 783.7
parish 269
Roman Catholic 266.2
[1]Mississippi, U. S. history 976.2
bubble loan institutes 332.31
river description 917.7
valley " 917.7
[1]Missouri, U. S. history 977.8
compromise, U. S. history 973.54
river, description 917.78
Mistral, Frederic Provençal poetry 849.146
Mitchell, D. G. Am. miscellany 818.32
Mites animal parasites 616.9685
Mithradatic war Roman history 937.05
Mithraic worship 295
Mitre sacred ornaments 247.6
Mixed drinks adulterations 614.349
chemical tech. 663.8
Mixing machinery for sewage 628.342
Mnemonic derangements 132.8
Mnemonics 154.1
Moab ancient history 939.46
Moabite stone 492.617
Mobs administration 351.752
Modeling sculpture 731
[1]Modena history 945.4
travel 914.54
Modern analytical geometry **516.5**
architecture **724**
church history 270.8
costumes and customs **390**
dance music 786.46
European history **940.5**
geometry **513.5**
Greek language **489**
literature **889**
history **940-999**
philosophers **190**
lives **921**
Sabbath theology **263.2**
sculpture **735**
Modesty ethics 179.9
Modulus of machines physics 531.43
Mœsia ancient history 939.88
Moguls Indian " 954
Mohammedan architecture 723.3
Mohammedanism 297
Moisture conditions of life 577.4
hygiene 613.14
physical geography 551.57
preven. in museums 579.83
soil public health 614.772
Moisture therapeutics 615.833
Molar pregnancy 618.39
Molasses chemical technology 664.1
Molbeck, F. C. K. Danish drama 839.8265
[1]Moldavia, Turkey history 949.8
Moldings, carved arch. decoration 729.55
painted " " 729.45
Molecular physics **539**
structure 539.1
Molecules, displacement of **539.5**
theoretical chemistry 541.2
Moles zoölogy 599.3
Molière, J. B. P. French drama 842.42
Molina, Tirso de Spanish " 862.33
Molinists heresies 273.7
persecution 272.5
[1]Molise, Italy, history 945.71
Mollusca paleontology **564**
zoölogy **594**
Molluscoidea **594.6**
Molly Maguires labor organizations 331.88
[1]Moluccas history 991.3
Molybdates mineralogy 549.74
Molybdenum metals, chemistry 546.77
Molza, F. M. Italian fiction 853.33
poetry 851.34
Moments statics 531.23
Monachism theology **271**
[1]Monaco history 944.94
[1]Monaghan, Ireland history 941.67
Monarch Eng. government 354.4203
Monarchic institutions 321.6
Monarchs' lives **923.1**
Monarchs of states Ger. govern. 354.4307
Monarchy, absolute 321.6
constitutional 321.7
Monasteries architecture 726.7
theology **271**
Monastic orders " **271**
schools education 377.3
Monetary congresses 332.44
Money **332**
administration 351.822
making commerce 658
ethics 174.4
paper 332.5
[1]Mongolia, China history 951.7
Mongolian languages 495
Mongols history 950
Russian history 947.03
Monimiaceæ botany 583.928
Monism philosophy 147
Monitorial system of education 371.41
Monitors, iron clads naval eng. 623.9
school government 371.57
Monkeys zoölogy 599.8

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Monks and nuns **relig. orders** **271**
[1] Monmouth, England history 942.43
Monocotyledonæ **botany** **584**
Monogamy family ethics 173.2
hygiene 613.89
Monograms design 745
Monoliths prehistoric arch. 571.94
Monomania insanity 132.1
Monopolies 338.8
state, e. g. tobacco in France 336.19
Monotremata mammals 599.1
Monotropeæ botany 583.63
Monroe, J., presidency of 973.54
[1] Monroe Co., N. Y. history 974.788
doctrine, foreign relations 327.73
Monsoons meteorology 551.51
Monstrosities, animal 591.159
human dwarfs, etc. 573.9
vegetable 581.159
teratology 581.22
Mont Blanc travels 914.449
Mont Cenis tunnel 622.26
Montagu, Mrs. E. English letters 826.62
M., Lady " " 826.51
Montaigne, M. E. de French essays 844.31
[1] Montana, U. S. history 978.6
Montanism heresies 273.9
Montemayor, Jorge de Spanish fict. 863.31
[1] Montenegro history 949.7
Montesquieu, C. de S., French essays 844.52
[1] Montgomery Co., N. Y. history 974.746
[1] Wales " 942.94
Monti, Vincenzo Italian poetry 851.64
[1] Montreal history 971.4
travels 917.14
Monts de piété, administration 351.825
loan institutes 332.33
Monuments cemeteries 718
prehistoric **571.9**
Moon **astronomy** **523.3**
charts 523.39
effect on tides 525.62
maps observations 524.3
Moore, E. English essays 824.61
T. " poetry 821.75
Moorish architecture 723.3
kingdom Spanish history 946.02
Moors, expulsion of " " 946.03
Moot-courts 340.7
Moraines glaciers 551.32
Moral agency, free, doctrinal theology 233.7
education 377
expectations probabilities 519.2
government in schools 371.58
heredity doctrine 233.3
metaphysics 129.2
Moral **philosophy** **170**
science **ethics** **170**
sentiment " 171.2
systems **171**
Morals and church 261.4
history of " 170.9
laboring classes polit. econ. 331.84
of the press ethics 179.1
war " 172.4
Moratin, L. F. de Spanish drama 862.42
N. F. de " poetry 861.41
[1] Moravia history 943.72
Moravian brethren sects 284.6
[4] **language** **491.87**
missions 266.46
Morbid anatomy 616.078
habits hygiene 613.87
[1] Morbihan, France history 944.13
More, T: English fiction 823.2
[1] Morea history 949.5
[1] Morelos, Mexico " 972.4
Moreto y Cabaña, A. Spanish drama 862.37
Moringeæ botany 583.299
Mörk, J. H. Swedish fiction 839.7341
Mormonism 298
Morning prayer Anglican ritual 264.033
family devotions 249
personal religion 248
[1] Morocco history 964
travels 916.4
Morphine habit ethics 178.8
Morphology **animals** **591.4**
comparative philology 415
[3] English language 425.1
plants **581.4**
Morris, W. English poetry 821.85
Mortality, law of insurance 368.3
statistics 312
public health 614.12
Mortar building material 691.5
Mortars chemical technology 666.9
ordnance 623.4
prehistoric archæol. 571.27
Mortgages law 347.2
Mortification surgery 617.25
Mortmain law 347.2
Mortuary buildings, architecture 726.8
customs **393**
designs sacred ornaments 247.3
Mosaic law **Old Testament** **222.1**
windows, architect. decora. 729.85
work 747
Mosaics **arch. decoration** **729.7**
floors and flooring 721.67
religious ornaments 247.4
Moscherosch, J: M. German satire 837.51

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

[1] Moscow history 947.3
travels 914.73
[1] Moselle, France history 944.38
Mosenthal, S. H. German drama 832.82
Moslems 297
Mosques architecture 726.2
[1] Mosquito shore, Cent. Amer., history 972.85
Mosquitoes animal parasites 616.9681
zoölogy 595.76
Mosses botany 588.2
sea algæ 589.3
Motet sacred music 783.4
Mother ethics 173.5
Goose folk-lore 398.3
maternity 618
Moths domestic economy 646
economic zoölogy 591.68
zoölogy 595.78
Motion, beginnings of origin of life 576.4
composition of, physics 531.22
in medicine massage 615.82
laws of astronomy 521.11
metaphysics 116
of earth " 525.3
liquids hydraulics 532.5
plants botany 581.5
sap in plants " 581.11
solar system 523.24
perpetual mechanics 531.8
pure physics 531.1
rectilinear " 531.31
Motor apparatus physiol. 612.7
system anatomy 611.7
surg. opera. 617.47
Motory organs animals 591.47
[5] **Mottoes English literature 828**
Mould fungi 589.2
Mouldings architecture 729.31
Moulting embryology 591.34
Mound builders pre-historic arch. 571.91
U. S. history 973.1
Mounds, grave pre-historic arch. 571.92
pre-historic architecture 571.9
Mountain cottages architecture 728.7
railways 625.3
resorts hygiene 613.12
Mountaineering
[1] Mountains, attraction of, geodesy 526.14
in moon 523.34
measurement of 551.53
physical geography 551.43
volcanic 551.21
Mounting specimens, collec. manuals 579.5
telescopes 522.25
Mourning customs 393.9
Mouth anatomy 611.31
Mouth diseases 616.31
physiology 612.31
surgery 617.52
Movable bridges military engin. 624.8
Movables chattels 347.3
Movements of plants botany 581.5
Mowatt, A. C. American drama 812.31
[1] Mozambique history 967.9
Mucilage manufacture 668.4
Muck agriculture 631
Mucous membranes administration of medicine by 615.66
physiology 612.38
secretion animals 591.141
Mudie's circulating libraries 027.342
Muggletonians sects 289.9
Mulberry agriculture 634
silk culture 638
Mule zoölogy 599.7
Müller, F. Paludan Danish poetry 839.8167
Multiovulatæ aquaticæ botany 583.92
terrestres " 583.922
Multiple integrals calculus 517.34
pregnancy obstetrics 618.25
stars 523.84
Multiplex telegraphs commun. 654.2
Mummies 393.3
Mumps diseases 616.31
public health 614.544
Munch, P. A. Danish essays 839.8464
Münch-Bellinghausen Germ. drama 832.75
[1] Munich history 943.36
travels 914.336
Municipal bonds political economy 332.6
civil service 352.005
corporations, admin. 352
law 347.1
government, admin. 352
law " 352
Munitions of war military eng. 623.4
[1] **Munster, Ireland history 941.9**
Muntaner, Ramon Catalan misc. 849.9813
Mural circles astronomical instr. 522.32
decorations architecture 729
Muratori, L. A. Italian essays 854.56
[1] Murcia, Spain history 946.7
Murder criminal law 343
Murner, T: German satire 837.41
Murrain cattle disease 619.2
Musci botany 588.2
Muscle-reading 134
Muscles anatomy 611.73
chem. composition of 611.73
diseases of 616.74
smooth physiol. 612.73
striped " 612.74

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Muscles structure anatomy 611.73
Muscular disorders eye diseases 617.76
exercise hygiene 613.72
sense mental faculties 152.6
physiology 612.885
Museums and libraries 021.4
architecture 727.6
arrangement of specimens 579.7
art fine arts 708
gov. admin. 351.853
medical 610.77
school 371.65
scientific natural science 507
Sunday opening 263.7
other museums see subject
Mushrooms botany 589.22
food 643
Music 780
box mech. instruments 789.8
copyright 655.62
ecclesiology 246.7–8
halls architecture 725.81
public worship 264.2
therapeutics 615.837
Musical form 781.5
instruments 780
acoustics 534.85
sounds " 534.3
Musicians' lives 927.8
Muspilli German poetry 831.14
Musquitoes animal parasites 616.9681
Musset, L. C. A. de French drama 842.76
poetry 841.77
Mustard emetics 615.731
Mustelidæ zoölogy 599.7
Muster rolls 355
Mutilations of library books 024.8
war customs 399
Mutiny maritime law 347 7
Mutual action of planets 521.41
aid societies pol. economy 334.7
benefit societies adminis. 351.825
Mycenæ ancient history 938.8
Mycology botany 589.2
Mydriatics therapeutics 615.784
Myology anatomy 611.73
Myopia eye diseases 617.75
Myoporineæ botany 583.871
Myricaceæ " 583.974
Myriopoda zoölogy 595.6
Myristiceæ botany 583.927
Myrsineæ " 583.677
Myrtaceæ " 583.42
Myrtales " 583.4
Mysia ancient history 939.21
[1]Mysore, India history 954.8
Mysteries 133
Mystery plays Eng. literature 822.1
history 809.2
religion 244
theatre 792
Mystic philosophers 189.5
Mysticism heresies 273.2
philosophy 149.3
Mystics mediæval 189.5
Mythical Greek history 938.01
Mythology, comparative 291
German 293
Greek and Roman 292
Norse 293
Myths 291
Myxœdema diseases 616.997
Myxomycetes botany 589.29
Nabatheans ancient history 939.46
Nævius, Cnæus Latin drama 872.2
Nahum Bible 224.94
Naiadaceæ botany 584.74
Nails anatomy 611.78
physiology 612.79
[1]Nairn, Scotland history 941.22
Names of persons and places 929.4
[1]Nantes history 944.14
travels 914.414
Nantes, edict of, religious history 272.4
[1]Nantucket Co., Mass. " 974.49
Naphthalene organic chemistry 547.28
[1]Naples, Italy history 945.7
[1]Naples city history 945.73
travels 914.573
Napoleon I., Fr. hist., First consulate 944.046
I. " " " empire 944.05
III. French history 944.07
Napoleon, code law 349.442
Napoleonic period, European history 940.8
wars German history 943.06
Russian " 947.07
Scandinavian hist. 948.06
[1]Napoli, Italy, history 945.73
Narcotic poisons therapeutics 615.96
Narcotics, action of hygiene 613.8
and stimulants ethics 178
moral use of 178.8
Nardi, Jacopo, Italian essays 854.32
Narrow-gauge railways 625.1
Nasal passages anatomy 611.21
Nasby, P. V. American humor 817.42
Naso-pharyngeal space, diseases of 616.21
[1]Natal, Africa history 968.4
Natatores birds 598.4
Natatoriums architecture 725.74
National aid to education 379.12
and state universities 379.16

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

National and state universities 378
assembly, 1789-92, Fr. hist. 944.041
1871, " " 944.08
banks 332.11
churches vs. organic unity 261.8
costumes 391
customs, special 390
debt finance 336.3
libraries 027.5
music 786.45
parks 711
politics England 329.942
U. S. 329
school supervision 379.15
soldiers' cemeteries 719
songs music 784.4
Nations, law of, international law 341
rise of, European history 940.2
Native Americans political parties 329.5
elements mineralogy 549.2
Natural body doctrinal theology 233.5
drainage, mining 622.52
gas chem. technology 662.6
economic geology 553.28
heating 697.6
history, Biblical 220.85
collectors' manuals 579
of countries 508.3
man 573
zoölogy 590
law 340.1
light shadows 515.63
magic 133
philosophy 530
religion 210
science 500
selection evolution 575.4
stone building material 691.2
system of botany 580.1
theology 210
ventilation mining 622.42
water courses, hygiene of 614.772
Naturalists' lives 925.9
Naturalization 325.1
suffrage 324.1
Nature 500
law of 340.1
metaphysics 113
of being metaphysics 111
respiration animals 591.121
printing 655.37
unity of
Nautical astronomy 527
surveying 526.99
Naval architecture engineering 623.8
battles 359
see also special countries
Naval biography 923.5
engineering 623.8
history 359.09
Amer. civil war 973.75
see also special countries
hygiene 613.68
men, lives of 923.5
schools, e. g. Annapolis 359.07
science 359
ship building 699
surveying 526.99
war 359
Navies 359
Navigation astronomy 527
laws 347.7
signals in, communicat. 654.9
physics 534.83
useful art 656
[1] Navigator's Islands history 996.1
Navigators' lives 923.9
Navy administration 359
department, U. S. 353.7
Neal, John Am. fiction 813.26
Joseph Clay " satire 817.31
Neap tides earth 525.63
[1] Nebraska, U. S. history 978.2
Nebulæ astronomy 523.85
Nebular hypothesis " 523.12
Necessity metaphysics 123
Neck anatomy 611.93
surgery 617.53
Necks geology 551.88
Necrology biography 920
colleges 378
Necromancers 133.4
Necrosis diseases 616.71
Needle-work art 746
domestic economy 646
Negro education 371.94
race ethnology 572.96
nat. hist. of man 573.5
political standing 324.1
slavery 326
songs music 784.7
Nehemiah Bible 222.8
[1] Nejd, Arabia, history 953.8
Nelli, Pietro Italian satire 857.41
Nematoda parasitic diseases 616.965
Nemean games Greek antiquities 913.38
Néo-Grec architecture 724.6
Neolithic age prehist. archæol. 571.2
Neology rationalism 211
Neoplatonism 186.4
Neoplatonists, apologetics against 239.4
[1] Nepaul history 954.2
travels 915.42
Nepenthaceæ botany 583.922

Nepos, Cornelius Latin history 878.3
Nepotism civil service 351.1
Neptune descriptive astronomy 523.48
Nerve fibres physiology 612.81
Nerves anatomy 611.83
diseases of 616.87
Nervous functions of animals 591.18
physiology 612.8
prostration 616.843
system, central physiology 612.82
comp. anatomy 591.48
descriptive anat. 591.78
diseases of 616.8
drugs acting on 615.78
human anatomy 611.8
hygiene 613.8
pathology 616.8
surg. operation 617.48
sympathet., physiol. 612.89
Nestorian church 281.8
[1] **Netherlands history 949.2**
Nets for collectors biology 579.612
Nettlerash skin diseases 616.51
Neuralgia diseases 616.87
Neurasthenia " 616.843
Neurology morphology 591.48
organography 591.78
physiol. zoölogy 591.18
Neuroptera insects 595.74
Neuroses diseases 616.85
due to spec. poisons 616.86
Neurotic poisons toxicology 615.95
Neuters generation of animals 591.162
Neutrality international law 341.3
[1] Nevada, U. S. history 979.3
[1] New Britain, Australia history 993.6
[1] Brunswick, Canada " 971.5
[1] Caledonia, Australia " 993.2
[1] Castile Spanish " 946.4
travels 914.64
church, Swedenborgian 289.4
[1] **England history 974**
[1] **France, Canada history 971**
travels 917.1
[1] Granada, S. A. history 986
[1] Guinea " 995
[1] **Hampshire, U. S. " 974.2**
[1] Haven, Conn. " 974.63
travels 917.468
[1] Hebrides, Australia history 993.4
[1] **Holland, Australia " 994**
travels 919.4
[1] Ireland history 993.6
[1] **Jersey, U. S. " 974.9**
Jerusalem church 289.4
[1] Mexico, U. S. " 978.9
[1] New Orleans **history 976.3**
travels 917.63
exposition 606
Platonism 186
Plymouth colony history 974.4
[1] South Wales " 994.4
[1] Sweden, Penn. " 974.8
travels 917.48
Testament 225
[1] biography 225.92
Greek dialects 487.3
[1] **York, U. S. history 974.7**
[1] city " 974.71
travels 917.471
[1] **vicinity of hist. 974.72**
[1] Zealand, " 993.1
[1] Newark, N. J. " 974.932
travels 917.4932
[1] Newfoundland history 971.8
News rooms and reading rooms, free 027.9
Newspaper cuttings preservation 029.3
Newspapers ethics 179.1
general 070
history of journalism 070
Newt zoölogy 598.11
Newton's binomial theorem 512.4
Ngami, lake travels 916.76
[1] Niagara Co., N. Y. history 974.798
[1] Falls description 917.4799
"Nibelungenlied" German poetry 831.21
[1] Nicaragua history 972.85
travels 917.285
Niccolini, G. Italian drama 852.71
[1] Nice history 944.94
travels 914.494
Nicene, Ante-, church A. D. 100–325 281.3
councils religious history 270.2
creed 238.1
Post-, church A. D. 325–1054, 281.4
Nicholas I. Russian history 947.07
Nicholls, C. (Brontë), English fiction 823.81
Nickel coinage pol. econ. 332.41
inorganic chemistry 546.74
ores economic geol. 553.48
[1] Nicobar Islands history 992
Niello-work arch. decoration 729.64
Niembsch v. Strehlenau, Ger. poetry 831.76
[1] Nièvre, France history 944.56
Niger river description 916.6
Night-soil air pollution 614.764
Nihilism philosophy 149.8
socialism 335
Nile description 916.2
[1] Nimes history 944.83
travels 914.483

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Nineveh ancient history 935.2
[4] **cuneiform lang.** 492.19
Niobium inorganic chemistry 546.89
[1] Nipal, India history 954.2
Nirvana oriental philosophy 181.4
Nisard, J. M. N. D. French essays 844.77
Nitrates chemical technology 661.6
mineralogy 549.72
Nitric acid chemical technology 661.2
Nitrites depressants 615.716
Nitro-derivatives, organic chemistry 547.8
Nitrogen compounds air pollution 614.727
group inorganic chem. 546.17
Nitro-glycerine, chemical tech. 662.2
Nitrous oxide anæsthetics 615.781
[1] Nivernais, France history 944.56
Nobility heraldry 929.7
Noble Leyczon, La Proven. poetry 849.432
Nobles' lives 923.2
Nocturne piano music 786.43
Nodier, J. C. E. French fiction 843.72
Nomads 397
Nomenclature, botany 580.1
theoretical chemistry 541.9
Nominalism philosophy 149.1
Nomsz, Jan Dutch drama 839.3245
Non-Christian religions 290
and education 377.9
Non-conformists Eng. relig. hist. 274.2
sects 283.42
Non-Euclidean geometry 513.8
Non-jurors Eng. religious history 274.2
Non-malignant tumors diseases 616.993
Non-metallic elements inorganic chemistry 546.1
poisons therap. 615.923
Non-officinal drugs adulterations 614.352
Non-sphericity of planets astron. 521.43
[1] Nord, France history 944.28
Nordenflycht, H. C., Swedish poetry 839.7143
[1] Norfolk, England history 942.61
[1] Co., Mass. " 974.47
Noricum ancient " 939.85
Norite Plutonic rocks 552.37
Normal labor obstetrics 618.44
schools 370.7
Norman architecture, Eng. 723.42
French 723.44
Sicilian 723.45
conquests European hist. 940.3
[1] **Normandy, France history** 944.2
[1] Norse history 948.02
Normans, England " 942.02
[1] Norrland, Sweden " 948.8
[4] **Norse language** 439.8
literature 839.8
Norse mythology 293
old, language 439.6
literature 839.6
Norsemen Scandinavian hist. 948
[1] **North Africa history** 961
America geography 917
geology 557
[1] **history** 970
languages 497
statistics 317
travels 917
Atlantic States, U. S. hist. 974
[1] Carolina " " 975.6
[1] **Central States history** 977
[1] East territory, Canada " 971.28
Eastern boundary, U. S. " 973.57
passage 919.8
German Confederation 943.081
pole travels 919.8
Sea physical geog. 551.461
west boundary U. S. hist. 973.611
passage travels 919.8
[1] **Territories, Can. hist.** 971.2
[1] **territory, U. S. "** 977
travels 917.7
[1] Northampton, England history 942.55
Northern lights aurora borealis 523.59
mythology 293
Northmen in America U. S. history 973.13
Scandinavian history 948
[1] Northumberland, England history 942.82
Norway administration 354.481
botany 581.9481
finance 336.481
geology 554.81
[1] **history** 948.1
maps 912.481
schools, public 379.481
statistics 314.81
travel 914.81
treaties 341.2481
union with Sweden hist. 948.06
other topics see table 1
[4] **Norwegian language** 439.8
literature 839.8
Romanesque arch. 723.48
Nose diseases, pathology 616.21
Nosology medicine 616.01
Nostrums State control 614.27
Nota, Alberto, Italian drama 852.65
Notaries public law 347.96
Notation, abridged anal. geometry 516.52
arithmetic 511.2
for book sizes 025.3
system of library classificat. 025.4
theoretical chemistry 541.9

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Notes, public and private, pol. econ. 332.5
Notion, concept. mental faculties 153.1
[1]Nottingham history 942.52
travels 914.252
[1]Notts, England history 942.52
[3]Nouns English syntax 425.5
[3] forms " etymology 422.5
" morphology 425.15
[1]Nouvelle France history 971
[1]Nova Scotia " 971.6
Novaculite lithology 552.45
Novel reading ethics 175.8
reading and aids 028.4
writing 808.3
Novelists' lives, Eng. 928.23
Novels Amer. civil war 973.793
[3] English literature 823
religious 244
[1]Novgorod, Russia history 947.2
Noxious gases air pollution 614.72
materials, storage of, air pollution 614.75
vapors hygiene 613.62
Noxiousness of animals, economic zoölogy 591.65
[1]Nubia, Egypt history 962.4
Nudifloreæ botany 584.6
[1]Nuevo Leon, Mexico history 972.1
Nuisances law 347.5
public health 614.7
Nullification in South Carolina 973.561
U. S. constitut. law 342.73
Number metaphysics 119
Numbering machines printing 655.36
Numbers, book of Bible 222.14
prime arithmetic 511.3
shelf library econ. 025.8
theory of algebra 512.81
Numeration arithmetic 511.2
Numerical equations, higher 512.2
Numidia ancient history 939.72
Numismatics 737
Nunneries 271.9
Nuns 271.9
cloistered religious history 271.96
[1]Nuremberg history 943.32
travels 914.332
Nursery domestic economy 649
lore folk-lore 398.3
Nurses physiological zoölogy 591.163
Nursing domestic economy 649
medicine 610.73
Nusairian religion 297
Nutation astron. corrections 522.96
theoretical astronomy 521.9
Nutriments physiology 612.392
Nutrition physiological botany 581.13
zoölogy 591.13
physiology 612.39
Nutritive baths hygiene 613.23
enemeta " 613.23
phenomena physiol. 612.39
Nutritory organs comp. anat. 591.43
descrip. " 591.73
Nux vomica spinal poisons 615.97
Nyblom, K: R. Swedish essays 839.7466
Nyctagineæ botany 583.911
Nyerup, Rasmus Danish essays 839.845
Nymphæaceæ, botany 583.118
Oases phys. geog. 551.58
Oaths ethics 179.5
legal 347.94
of allegiance pol. sci. 323
[1]Oaxaca, Mexico history 972.7
Obadiah Bible 224.91
Obedience doctrinal theology 234.6
Obelisks 718
Oberammergau passion play 792
Obituary addresses biography 920
sermons 252.9
Object glass telescopes 522.24
teaching education 372.3
Objectives microscopy 578.2
Oblates monastic orders 271.76
Obligations social ethics 177.8
Oblique perspective desc. geom. 515.61
projection " " 515.3
Obliquity of ecliptic to equator 525.32
Oboe musical instrument 788.7
Observation errors probabilities 519.6
mental faculties 152
Observations astronomy 524
auxiliary, astron. 522.6
Observatories " 522.1
school apparatus 371.68
Observing chairs astronomy 522.28
powers education 372.3
Obsidian lithology 552.23
Obstetric operations 618.8
Obstetrics diseases of women 618.2
Occult sciences 133
Occultations and transits, astronomy 523.99
finding longitude 525.48
Occupations, injurious hygiene 613.6
mortality in public health 614.15
special dis. from 616
Ocean coast changes 551.36
currents phys. geog. 551.47
exploration 910.4
geography maps 912
life zoölogy 591.92

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Ocean telegraph 654.5
tides **525.6**
transportation sociology 387
useful arts 656
travel 910.4
Oceanica **ecclesiastical hist.** **279**
geography **919**
geology **559**
[1] **history** **990**
statistics **319**
travels **919**
Oceans **physical geography** **551.46**
Ochnaceæ botany 583.245
Octateuch **Bible** **222**
Octocorolla radiates 593.62
Odd Fellows secret societies 366.3
Odel, Anders, Swedish poetry 839.7144
[1] Odessa history 947.7
Odic force 134
Odontalgia dentistry 617.65
Odontology animal comp. anat. 591.43
descr. " 591.73
human " 611.3
Odontornithes fossils 568
Œcumenical councils, eccles. pol. **262.5**
relig. hist. **270.2**
Oehlenschläger, A. G. Dan. poet. 839.8161
Œsophagus anatomy 611.32
diseases of 616.32
Offal air pollution 614.763
Offensive animals econ. zoölogy 591.66
materials, storing, air pollu. 614.75
Offertory alms 264.9
organ music 786.86
sacred music 783.23
Office and apartment buildings, arch. 725.22
buildings " 725.23
tenure of civil service 351.4
training law education 340.7
Officers, army and navy lives 923.5
civil service " 923.5
organization 351.1
duties of public ethics 172.2
Offices, excise architecture 725.14
post " 725.16
public " 725.13
record " 725.15
Official functions civ. serv. officers 351.1
register, U. S., civil service 351.2
residences architecture 725.17
Officinal drugs, adulterations 614.351
Offspring **hygiene** **613.9**
Ogier, Guillelmus Dutch drama 839.3235
[1] Ohio, U. S., history 977.1
valley description 917.7
Oil, animal chemical analysis 543.9
Oil, animal chemical technology 665.2
coal economic geology 553.28
manufacture **665**
painting art 751
building **698.1**
refining, mineral air pollution 614.724
vegetable agriculture 633
chemical analysis 543.8
Oils adulterations 614.313
essential, chem. tech. 668.5
fixed, materia medica 615.34
protec. extern. agents 615.776
[1] Oise, France history 944.35
Olacales **botany** **583.26**
Olacineæ " 583.261
Olai, Ericus Swedish poetry 839.7113
Old age, mortality public health 614.135
therapeutics of 615.54
[4] **Bactrian language** **491.52**
[1] Castile Spanish history 946.3
travels 914.63
Catholic church 284.8
[4] **Egyptian language** **493.1**
[3] English language 427.01
French " 447.01
[4] **Norse** " **439.6**
literature 839.6
[4] **Persian language** **891.51**
[4] **Prussian** " **491.91**
red sandstone geology 551.74
[4] **Saxon language** **439.2**
literature 839.2
Testament **221**
biography 221.92
[1] Oldenburg, Germany histor, 943.52
travels 914.352
Oldham, J. English satire 827.45
Oleaceæ botany 583.71
Olefines organic chemistry 547.22
Oleomargarine, adulterations 614.326
chemical technology 664.3
Oleron, laws of, admiralty law 347.7
Olfaction physiology 612.86
pyschology 152.3
Oligarchy 321.5
Olive oil chemical technology 665.3
[1] Olonetz Russian history 947.2
Olozaga, Salustiano de, Span. oratory 865.51
Oltmans, J. F., Dutch fiction 839.3353
Olufsen, O. K., Danish drama 839.8257
Olympiads chronology 529.3
Olympic games, Grecian antiquities 913.38
[1] Oman, Arabia history 953.5
Omens delusions 133.3
Omentum anatomy 611.38
diseases of 616.38

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Mill gearing and machinery 621.85
stones mechan. eng. 621.92
work engineering 621.8
Millennium theology 236.3
Miller, Joaquin American poetry 811.45
Millerites 289.3
Millers' occupation hygiene 613.63
Millevoye, C: H. French poetry 841.67
Millinery clothing 646
Milling tools 621.94
Mills and manf. works eng. 621.7
cotton, woolen, etc. 677
flour meal and feed arch. 725.47
paper " 725.46
manufactures 676
textile " 725.41
wood-working " 725.44
Milton, J. English poetry 821.47
[1] Milwaukee, Wis. history 977.5
travels 917.75
Mimetic arts 792
variation animals 591.155
Mimicry 177.1
Mind 150
and body 130
cure therapeutics 615.851
in animals zöology 591.51
readers' lives 920.9
reading mesmerism 134
Mine cars 622.63
fires 622.82
surveying 622.14
Mineral cements chem. technology 666.9
economic geology 553.68
irritant poisons, therapeu. 615.92
oil refining air pollution 614.724
oils chemical technology 665.4
economic geology 553.28
springs economic geol. 553.7
surveys 622.13
trades air pollution 614.72
veins ore deposits 553.19
waters adulterations 614.348
artifi. chem. tech. 663.6
economic geology 553.7
hygiene 613.38
therapeutics 615.79
wool linings masonry 693.67
Mineralogy 549
determinative 549.1
of the Bible 220.8549
Minerals rock determination 552.81
Mines, admin. of government 351.823
military eng. 623.2
mining 622
ownership, political economy 333.8
Mines, suffocation in protec. of life **614.82**
Miniatures painting 757
Minima and maxima algebra 512.3
geometry 513.19
Mining companies mining eng. 622.06
dangers and accidents, eng. 622.8
engineering 622
laws 622.007
practical 622.2
products political economy 338.2
prospectuses 622.19
Minister eccles. polity 262.14
Ministerial authority " " 262.8
Ministers French government 354.4404
Ger. state " 354.4308
lives 922
Ministration to sick and dead 265.8
Ministries of state architecture 725.12
war " 725.12
Ministry ecclesiastical polity 262.1
German gov. 354.4306
lay 262.14
parish work 258
religion 250
Minnesingers German poetry 831.2
[1] Minnesota, U. S. history 977.6
[1] Minorca history 946.7
travels 914.67
Minority representation polit. sci. 324.2
Minors law 347.6
Minot, L. English poetry 821.14
[5] Minstrelsy " " 821
negro vocal music 784.7
Mints political economy 332.46
Minute books curiosa 099
Miocene period geology 551.782
Miracle plays Eng. literature 822.1
general history 809.2
religion 244
theatre 792
Miracles doctrines 231.7
New Testament 226.7
post-Biblical 231.7
Mirage optics 535.3
Mirrors " 535.87
Miscarriage obstetrics 618.39
Miscegenation, ethics 173.1
hygiene 613.9
law 347.6
[5] Miscellanies see subjects
[5] **Miscellany English literature 828**
Misers, lives of 920.8
Mishna Judaism 296
Missals Catholic ritual 264.025
illuminated 096
Missing link origin of species 575.8

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Missionaries, lives of 922
Missionary schools 377.6
Missions, city 266
home and foreign 266
music for sacred music 783.7
parish 269
Roman Catholic 266.2
[1]Mississippi, U. S. history 976.2
bubble loan institutes 332.31
river description 917.7
valley " 917.7
[1]Missouri, U. S. history 977.8
compromise, U. S. history 973.54
river, description 917.78
Mistral, Frederic Provençal poetry 849.146
Mitchell, D. G. Am. miscellany 818.32
Mites animal parasites 616.9685
Mithradatic war Roman history 937.05
Mithraic worship 295
Mitre sacred ornaments 247.6
Mixed drinks adulterations 614.349
chemical tech. 663.8
Mixing machinery for sewage 628.342
Mnemonic derangements 132.8
Mnemonics 154.1
Moab ancient history 939.46
Moabite stone 492.617
Mobs administration 351.752
Modeling sculpture 731
[1]Modena history 945.4
travel 914.54
Modern analytical geometry 516.5
architecture 724
church history 270.8
costumes and customs 390
dance music 786.46
European history 940.5
geometry 513.5
Greek language 489
literature 889
history 940-999
philosophers 190
lives 921
Sabbath theology 263.2
sculpture 735
Modesty ethics 179.9
Modulus of machines physics 531.43
Mœsia ancient history 939.88
Moguls Indian " 954
Mohammedan architecture 723.3
Mohammedanism 297
Moisture conditions of life 577.4
hygiene 613.14
physical geography 551.57
preven. in museums 579.83
soil public health 614.772
Moisture therapeutics 615.833
Molar pregnancy 618.39
Molasses chemical technology 664.1
Molbeck, F. C. K. Danish drama 839.8265
[1]Moldavia, Turkey history 949.8
Moldings, carved arch. decoration 729.55
painted " " 729.45
Molecular physics 539
structure 539.1
Molecules, displacement of 539.5
theoretical chemistry 541.2
Moles zoölogy 599.3
Molière, J. B. P. French drama 842.42
Molina, Tirso de Spanish " 862.33
Molinists heresies 273.7
persecution 272.5
[1]Molise, Italy, history 945.71
Mollusca paleontology 564
zoölogy 594
Molluscoidea 594.6
Molly Maguires labor organizations 331.88
[1]Moluccas history 991.3
Molybdates mineralogy 549.74
Molybdenum metals, chemistry 546.77
Molza, F. M. Italian fiction 853.33
poetry 851.34
Moments statics 531.23
Monachism theology 271
[1]Monaco history 944.94
[1]Monaghan, Ireland history 941.67
Monarch Eng. government 354.4203
Monarchic institutions 321.6
Monarchs' lives 923.1
Monarchs of states Ger. govern. 354.4307
Monarchy, absolute 321.6
constitutional 321.7
Monasteries architecture 726.7
theology 271
Monastic orders " 271
schools education 377.3
Monetary congresses 332.44
Money 332
administration 351.822
making commerce 658
ethics 174.4
paper 332.5
[1]Mongolia, China history 951.7
Mongolian languages 495
Mongols history 950
Russian history 947.03
Monimiaceæ botany 583.928
Monism philosophy 147
Monitorial system of education 371.41
Monitors, iron clads naval eng. 623.9
school government 371.57
Monkeys zoölogy 599.8

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Monks and nuns **relig. orders** 271
[1] Monmouth, England history 942.43
Monocotyledonæ **botany** 584
Monogamy family ethics 173.2
hygiene 613.89
Monograms design 745
Monoliths prehistoric arch. 571.94
Monomania insanity 132.1
Monopolies 338.8
state, e. g. tobacco in France 336.19
Monotremata mammals 599.1
Monotropeæ botany 583.63
Monroe, J., presidency of 973.54
[1] Monroe Co., N. Y. history 974.788
doctrine, foreign relations 327.73
Monsoons meteorology 551.51
Monstrosities, animal 591.159
human dwarfs, etc. 573.9
vegetable 581.159
teratology 581.22
Mont Blanc travels 914.449
Mont Cenis tunnel 622.26
Montagu, Mrs. E. English letters 826.62
M.. Lady " " 826.51
Montaigne, M. E. de French essays 844.31
[1] Montana, U. S. history 978.6
Montanism heresies 273.9
Montemayor, Jorge de Spanish fict. 863.31
[1] Montenegro history 949.7
Montesquieu, C. de S., French essays 844.52
[1] Montgomery Co., N. Y. history 974.746
[1] Wales " 942.94
Monti, Vincenzo Italian poetry 851.64
[1] Montreal history 971.4
travels 917.14
Monts de piété, administration 351.825
loan institutes 332.33
Monuments cemeteries 718
prehistoric **571.9**
Moon **astronomy** **523.3**
charts 523.39
effect on tides 525.62
maps observations 524.3
Moore, E. English essays 824.61
T. " poetry 821.75
Moorish architecture 723.3
kingdom Spanish history 946.02
Moors, expulsion of " " 946.03
Moot-courts 340.7
Moraines glaciers 551.32
Moral agency, free, doctrinal theology 233.7
education 377
expectations probabilities 519.2
government in schools 371.58
heredity doctrine 233.3
metaphysics 129.2
Moral **philosophy** **170**
science **ethics** **170**
sentiment " 171.2
systems **171**
Morals and church 261.4
history of " 170.9
laboring classes polit. econ. 331.84
of the press ethics 179.1
war " 172.4
Moratin, L. F. de Spanish drama 862.42
N. F. de " poetry 861.41
[1] Moravia history 943.72
Moravian brethren sects 284.6
[4] **language** **491.87**
missions 266.46
Morbid anatomy 616.078
habits hygiene 613.87
[1] Morbihan, France history 944.13
More, T: English fiction 823.2
[1] Morea history 949.5
[1] Morelos, Mexico " 972.4
Moreto y Cabaña, A. Spanish drama 862.37
Moringeæ botany 583.299
Mörk, J. H. Swedish fiction 839.7341
Mormonism 298
Morning prayer Anglican ritual 264.033
family devotions 249
personal religion 248
[1] Morocco history 964
travels 916.4
Morphine habit ethics 178.8
Morphology **animals** **591.4**
comparative philology 415
[3] English language 425.1
plants **581.4**
Morris, W. English poetry 821.85
Mortality, law of insurance 368.3
statistics 312
public health 614.12
Mortar building material 691.5
Mortars chemical technology 666.9
ordnance 623.4
prehistoric archæol. 571.27
Mortgages law 347.2
Mortification surgery 617.25
Mortmain law 347.2
Mortuary buildings, architecture 726.8
customs **393**
designs sacred ornaments 247.3
Mosaic law **Old Testament** **222.1**
windows, architect. decora. 729.85
work 747
Mosaics **arch. decoration** **729.7**
floors and flooring 721.67
religious ornaments 247.4
Moscherosch, J: M. German satire 837.51

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

[1] Moscow history 947.3
travels 914.73
[1] Moselle, France history 944.38
Mosenthal, S. H. German drama 832.82
Moslems 297
Mosques architecture 726.2
[1] Mosquito shore, Cent. Amer., history 972.85
Mosquitoes animal parasites 616.9681
zoölogy 595.76
Mosses botany 588.2
sea algæ 589.3
Motet sacred music 783.4
Mother ethics 173.5
Goose folk-lore 398.3
maternity 618
Moths domestic economy 646
economic zoölogy 591.68
zoölogy 595.78
Motion, beginnings of origin of life 576.4
composition of, physics 531.22
in medicine massage 615.82
laws of astronomy 521.11
metaphysics 116
of earth " 525.3
liquids hydraulics 532.5
plants botany 581.5
sap in plants " 581.11
solar system 523.24
perpetual mechanics 531.8
pure physics 531.1
rectilinear " 531.31
Motor apparatus physiol. 612.7
system anatomy 611.7
surg. opera. 617.47
Motory organs animals 591.47
[5] **Mottoes English literature 828**
Mould fungi 589.2
Mouldings architecture 729.31
Moulting embryology 591.34
Mound builders pre-historic arch. 571.91
U. S. history 973.1
Mounds, grave pre-historic arch. 571.92
pre-historic architecture 571.9
Mountain cottages architecture 728.7
railways 625.3
resorts hygiene 613.12
Mountaineering
[1] Mountains, attraction of, geodesy 526.14
in moon 523.34
measurement of 551.53
physical geography 551.43
volcanic 551.21
Mounting specimens, collec. manuals 579.5
telescopes 522.25
Mourning customs 393.9
Mouth anatomy 611.31
Mouth diseases 616.31
physiology 612.31
surgery 617.52
Movable bridges military engin. 624.8
Movables chattels 347.3
Movements of plants botany 581.5
Mowatt, A. C. American drama 812.31
[1] Mozambique history 967.9
Mucilage manufacture 668.4
Muck agriculture 631
Mucous membranes administration of medicine by 615.66
physiology 612.38
secretion animals 591.141
Mudie's circulating libraries 027.342
Muggletonians sects 289.9
Mulberry agriculture 634
silk culture 638
Mule zoölogy 599.7
Müller, F. Paludan Danish poetry 839.8167
Multiovulatæ aquaticæ botany 583.92
terrestres " 583.922
Multiple integrals calculus 517.34
pregnancy obstetrics 618.25
stars 523.84
Multiplex telegraphs commun. 654.2
Mummies 393.3
Mumps diseases 616.31
public health 614.544
Munch, P. A. Danish essays 839.8464
Münch-Bellinghausen Germ. drama 832.75
[1] Munich history 943.36
travels 914.336
Municipal bonds political economy 332.6
civil service 352.005
corporations, admin. 352
law 347.1
government, admin. 352
law " 352
Munitions of war military eng. 623.4
[1] **Munster, Ireland history 941.9**
Muntaner, Ramon Catalan misc. 849.9813
Mural circles astronomical instr. 522.32
decorations architecture 729
Muratori, L. A. Italian essays 854.56
[1] Murcia, Spain history 946.7
Murder criminal law 343
Murner, T: German satire 837.41
Murrain cattle disease 619.2
Musci botany 588.2
Muscle-reading 134
Muscles anatomy 611.73
chem. composition of 611.73
diseases of 616.74
smooth physiol. 612.73
striped " 612.74

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Muscles structure anatomy 611.73
Muscular disorders eye diseases 617.76
exercise hygiene 613.72
sense mental faculties 152.6
physiology 612.885
Museums and libraries 021.4
architecture 727.6
arrangement of specimens 579.7
art fine arts 708
gov. admin. 351.853
medical 610.77
school 371.65
scientific natural science 507
Sunday opening 263.7
other museums see subject
Mushrooms botany 589.22
food 643
Music 780
box mech. instruments 789.8
copyright 655.62
ecclesiology 246.7–8
halls architecture 725.81
public worship 264.2
therapeutics 615.837
Musical form 781.5
instruments 780
acoustics 534.85
sounds " 534.3
Musicians' lives 927.8
Muspilli German poetry 831.14
Musquitoes animal parasites 616.9681
Musset, L. C. A. de French drama 842.76
poetry 841.77
Mustard emetics 615.731
Mustelidæ zoölogy 599.7
Muster rolls 355
Mutilations of library books 024.8
war customs 399
Mutiny maritime law 347 7
Mutual action of planets 521.41
aid societies pol. economy 334.7
benefit societies adminis. 351.825
Mycenæ ancient history 938.8
Mycology botany 589.2
Mydriatics therapeutics 615.784
Myology anatomy 611.73
Myopia eye diseases 617.75
Myoporineæ botany 583.871
Myricaceæ " 583.974
Myriopoda zoölogy 595.6
Myristiceæ botany 583.927
Myrsineæ " 583.677
Myrtaceæ " 583.42
Myrtales " 583.4
Mysia ancient history 939.21
[1]Mysore, India history 954.8
Mysteries 133
Mystery plays Eng. literature 822.1
history 809.2
religion 244
theatre 792
Mystic philosophers 189.5
Mysticism heresies 273.2
philosophy 149.3
Mystics mediæval 189.5
Mythical Greek history 938.01
Mythology, comparative 291
German 293
Greek and Roman 292
Norse 293
Myths 291
Myxœdema diseases 616.997
Myxomycetes botany 589.29
Nabatheans ancient history 939.46
Nævius, Cnæus Latin drama 872.2
Nahum Bible 224.94
Naiadaceæ botany 584.74
Nails anatomy 611.78
physiology 612.79
[1]Nairn, Scotland history 941.22
Names of persons and places 929.4
[1]Nantes history 944.14
travels 914.414
Nantes, edict of, religious history 272.4
[1]Nantucket Co., Mass. " 974.49
Naphthalene organic chemistry 547.28
[1]Naples, Italy history 945.7
[1]Naples city history 945.73
travels 914.573
Napoleon I., Fr. hist., First consulate 944.046
I. " " " empire 944.05
III. French history 944.07
Napoleon, code law 349.442
Napoleonic period, European history 940.8
wars German history 943.06
Russian " 947.07
Scandinavian hist. 948.06
[1]Napoli, Italy, history 945.73
Narcotic poisons therapeutics 615.96
Narcotics, action of hygiene 613.8
and stimulants ethics 178
moral use of 178.8
Nardi, Jacopo, Italian essays 854.32
Narrow-gauge railways 625.1
Nasal passages anatomy 611.21
Nasby, P. V. American humor 817.42
Naso-pharyngeal space, diseases of 616.21
[1]Natal, Africa history 968.4
Natatores birds 598.4
Natatoriums architecture 725.74
National aid to education 379.12
and state universities 379.16

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

National and state universities 378
assembly, 1789-92, Fr. hist. 944.041
1871, " " 944.08
banks 332.11
churches vs. organic unity 261.8
costumes 391
customs, special 390
debt finance 336.3
libraries 027.5
music 786.45
parks 711
politics England 329.942
U. S. 329
school supervision 379.15
soldiers' cemeteries 719
songs music 784.4
Nations, law of, international law 341
rise of, European history 940.2
Native Americans political parties 329.5
elements mineralogy 549.2
Natural body doctrinal theology 233.5
drainage, mining 622.52
gas chem. technology 662.6
economic geology 553.28
heating 697.6
history, Biblical 220.85
collectors' manuals 579
of countries 508.3
man 573
zoölogy 590
law 340.1
light shadows 515.63
magic 133
philosophy 530
religion 210
science 500
selection evolution 575.4
stone building material 691.2
system of botany 580.1
theology 210
ventilation mining 622.42
water courses, hygiene of 614.772
Naturalists' lives 925.9
Naturalization 325.1
suffrage 324.1
Nature 500
law of 340.1
metaphysics 113
of being metaphysics 111
respiration animals 591.121
printing 655.37
unity of
Nautical astronomy 527
surveying 526.99
Naval architecture engineering 623.8
battles 359
see also special countries
Naval biography 923.5
engineering 623.8
history 359.09
Amer. civil war 973.75
see also special countries
hygiene 613.68
men, lives of 923.5
schools, e. g. Annapolis 359.07
science 359
ship building 699
surveying 526.99
war 359
Navies 359
Navigation astronomy 527
laws 347.7
signals in, communicat. 654.9
physics 534.83
useful art 656
[1] Navigator's Islands history 996.1
Navigators' lives 923.9
Navy administration 359
department, U. S. 353.7
Neal, John Am. fiction 813.26
Joseph Clay " satire 817.31
Neap tides earth 525.63
[1] Nebraska, U. S. history 978.2
Nebulæ astronomy 523.85
Nebular hypothesis " 523.12
Necessity metaphysics 123
Neck anatomy 611.93
surgery 617.53
Necks geology 551.88
Necrology biography 920
colleges 378
Necromancers 133.4
Necrosis diseases 616.71
Needle-work art 746
domestic economy 646
Negro education 371.94
race ethnology 572.96
nat. hist. of man 573.5
political standing 324.1
slavery 326
songs music 784.7
Nehemiah Bible 222.8
[1] Nejd, Arabia, history 953.8
Nelli, Pietro Italian satire 857.41
Nematoda parasitic diseases 616.965
Nemean games Greek antiquities 913.38
Néo-Grec architecture 724.6
Neolithic age prehist. archæol. 571.2
Neology rationalism 211
Neoplatonism 186.4
Neoplatonists, apologetics against 239.4
[1] Nepaul history 954.2
travels 915.42
Nepenthaceæ botany 583.922

Nepos, Cornelius Latin history 878.3
Nepotism civil service 351.1
Neptune descriptive astronomy 523.48
Nerve fibres physiology 612.81
Nerves anatomy 611.83
diseases of 616.87
Nervous functions of animals 591.18
physiology 612.8
prostration 616.843
system, central physiology 612.82
comp. anatomy 591.48
descriptive anat. 591.78
diseases of 616.8
drugs acting on 615.78
human anatomy 611.8
hygiene 613.8
pathology 616.8
surg. operation 617.48
sympathet., physiol. 612.89
Nestorian church 281.8
[1] **Netherlands history 949.2**
Nets for collectors biology 579.612
Nettlerash skin diseases 616.51
Neuralgia diseases 616.87
Neurasthenia " 616.843
Neurology morphology 591.48
organography 591.78
physiol. zoölogy 591.18
Neuroptera insects 595.74
Neuroses diseases 616.85
due to spec. poisons 616.86
Neurotic poisons toxicology 615.95
Neuters generation of animals 591.162
Neutrality international law 341.3
[1] Nevada, U. S. history 979.3
[1] New Britain, Australia history 993.6
[1] Brunswick, Canada " 971.5
[1] Caledonia, Australia " 993.2
[1] Castile Spanish " 946.4
travels 914.64
church, Swedenborgian 289.4
[1] **England history 974**
[1] **France, Canada history 971**
travels 917.1
[1] Granada, S. A. history 986
[1] Guinea " 995
[1] **Hampshire, U. S. " 974.2**
[1] Haven, Conn. " 974.63
travels 917.468
[1] Hebrides, Australia history 993.4
[1] **Holland, Australia " 994**
travels 919.4
[1] Ireland history 993.6
[1] Jersey, U. S. " 974.9
Jerusalem church 289.4
[1] Mexico, U. S. " 978.9
[1] New Orleans **history 976.3**
travels 917.63
exposition 606
Platonism 186
Plymouth colony history 974.4
[1] South Wales " 994.4
[1] Sweden, Penn. " 974.8
travels 917.48
Testament 225
[1] biography 225.92
Greek dialects 487.3
[1] **York, U. S. history 974.7**
[1] city " 974.71
travels 917.471
[1] **vicinity of hist. 974.72**
[1] Zealand, " 993.1
[1] Newark, N. J. " 974.932
travels 917.4932
[1] Newfoundland history 971.8
News rooms and reading rooms, free 027.9
Newspaper cuttings preservation 029.3
Newspapers ethics 179.1
general 070
history of journalism 070
Newt zoölogy 598.11
Newton's binomial theorem 512.4
Ngami, lake travels 916.76
[1] Niagara Co., N. Y. history 974.798
[1] Falls description 917.4799
"Nibelungenlied" German poetry 831.21
[1] Nicaragua history 972.85
travels 917.285
Niccolini, G. Italian drama 852.71
[1] Nice history 944.94
travels 914.494
Nicene, Ante-, church A. D. 100–325 281.3
councils religious history 270.2
creed 238.1
Post-, church A. D. 325–1054, 281.4
Nicholas I. Russian history 947.07
Nicholls, C. (Bronté), English fiction 823.81
Nickel coinage pol. econ. 332.41
inorganic chemistry 546.74
ores economic geol. 553.48
[1] Nicobar Islands history 992
Niello-work arch. decoration 729.64
Niembsch v. Strehlenau, Ger. poetry 831.76
[1] Nièvre, France history 944.56
Niger river description 916.6
Night-soil air pollution 614.764
Nihilism philosophy 149.8
socialism 335
Nile description 916.2
[1] Nimes history 944.83
travels 914.483

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Nineveh ancient history 935.2
[4] **cuneiform lang.** 492.19
Niobium inorganic chemistry 546.89
[1] Nipal, India history 954.2
Nirvana oriental philosophy 181.4
Nisard, J. M. N. D. French essays 844.77
Nitrates chemical technology 661.6
mineralogy 549.72
Nitric acid chemical technology 661.2
Nitrites depressants 615.716
Nitro-derivatives, organic chemistry 547.8
Nitrogen compounds air pollution 614.727
group inorganic chem. 546.17
Nitro-glycerine, chemical tech. 662.2
Nitrous oxide anæsthetics 615.781
[1] Nivernais, France history 944.56
Nobility heraldry 929.7
Noble Leyczon, La Proven. poetry 849.132
Nobles' lives 923.2
Nocturne piano music 786.43
Nodier, J. C. E. French fiction 843.72
Nomads 397
Nomenclature, botany 580.1
theoretical chemistry 541.9
Nominalism philosophy 149.1
Nomsz, Jan Dutch drama 839.3245
Non-Christian religions 290
and education 377.9
Non-conformists Eng. relig. hist. 274.2
sects 283.42
Non-Euclidean geometry 513.8
Non-jurors Eng. religious history 274.2
Non-malignant tumors diseases 616.993
Non-metallic elements inorganic
chemistry 546.1
poisons therap. 615.923
Non-officinal drugs adulterations 614.352
Non-sphericity of planets astron. 521.43
[1] Nord, France history 944.28
Nordenflycht, H. C., Swedish poetry 839.7143
[1] **Norfolk,** England history 942.61
[1] Co., Mass. " 974.47
Noricum ancient " 939.85
Norite Plutonic rocks 552.37
Normal labor obstetrics 618.44
schools 370.7
Norman architecture, Eng. 723.42
French 723.44
Sicilian 723.45
conquests European hist. 940.3
[1] **Normandy,** France **history** 944.2
[1] Norse history 948.02
Normans, England " 942.02
[1] Norrland, Sweden " 948.8
[4] **Norse language** 439.8
literature 839.8
Norse mythology 293
old, language 439.6
literature 839.6
Norsemen Scandinavian hist. 948
[1] **North Africa history** 961
America geography 917
geology 557
[1] **history** 970
languages 497
statistics 317
travels 917
Atlantic States, U. S. hist. 974
[1] Carolina " " 975.6
[1] **Central States history** 977
[1] East territory, Canada " 971.28
Eastern boundary, U. S. " 973.57
passage 919.8
German Confederation 943.081
pole travels 919.8
Sea physical geog. 551.461
west boundary U. S. hist. 973.611
passage travels 919.8
[1] **Territories, Can. hist.** 971.2
[1] **territory, U. S.** " 977
travels 917.7
[1] Northampton, England history 942.55
Northern lights aurora borealis 523.59
mythology 293
Northmen in America U. S. history 973.13
Scandinavian history 948
[1] Northumberland, England history 942.82
Norway administration 354.481
botany 581.9481
finance 336.481
geology 554.81
[1] **history** 948.1
maps 912.481
schools, public 379.481
statistics 314.81
travel 914.81
treaties 341.2481
union with Sweden hist. 948.06
other topics see table 1
[4] **Norwegian language** 439.8
literature 839.8
Romanesque arch. 723.48
Nose diseases, pathology 616.21
Nosology medicine 616.01
Nostrums State control 614.27
Nota, Alberto, Italian drama 852.65
Notaries public law 347.96
Notation, abridged anal. geometry 516.52
arithmetic 511.2
for book sizes 025.3
system of library classificat. 025.4
theoretical chemistry 541.9

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Notes, public and private, pol. econ. 332.5
Notion, concept. mental faculties 153.1
[1]Nottingham history 942.52
travels 914.252
[1]Notts, England history 942.52
[3]Nouns English syntax 425.5
[3] forms " etymology 422.5
" morphology 425.15
[1]Nouvelle France history 971
[1]Nova Scotia " 971.6
Novaculite lithology 552.45
Novel reading ethics 175.8
reading and aids 028.4
writing 808.3
Novelists' lives, Eng. 928.23
Novels Amer. civil war 973.793
[3] English literature 823
religious 244
[1]Novgorod, Russia history 947.2
Noxious gases air pollution 614.72
materials, storage of, air pollution 614.75
vapors hygiene 613.62
Noxiousness of animals, economic zoölogy 591.65
[1]Nubia, Egypt history 962.4
Nudifloreæ botany 584.6
[1]Nuevo Leon, Mexico history 972.1
Nuisances law 347.5
public health 614.7
Nullification in South Carolina 973.561
U. S. constitut. law 342.73
Number metaphysics 119
Numbering machines printing 655.36
Numbers, book of Bible 222.14
prime arithmetic 511.3
shelf library econ. 025.8
theory of algebra 512.81
Numeration arithmetic 511.2
Numerical equations, higher 512.2
Numidia ancient history 939.72
Numismatics 737
Nunneries 271.9
Nuns 271.9
cloistered religious history 271.96
[1]Nuremberg history 943.32
travels 914.332
Nursery domestic economy 649
lore folk-lore 398.3
Nurses physiological zoölogy 591.163
Nursing domestic economy 649
medicine 610.73
Nusairian religion 297
Nutation astron. corrections 522.96
theoretical astronomy 521.9
Nutriments physiology 612.392
Nutrition physiological botany 581.13
zoölogy 591.13
physiology 612.39
Nutritive baths hygiene 613.23
enemeta " 613.23
phenomena physiol. 612.39
Nutritory organs comp. anat. 591.43
descrip. " 591.73
Nux vomica spinal poisons 615.97
Nyblom, K: R. Swedish essays 839.7466
Nyctagineæ botany 583.911
Nyerup, Rasmus Danish essays 839.845
Nymphæaceæ, botany 583.118
Oases phys. geog. 551.58
Oaths ethics 179.5
legal 347.94
of allegiance pol. sci. 323
[1]Oaxaca, Mexico history 972.7
Obadiah Bible 224.91
Obedience doctrinal theology 234.6
Obelisks 718
Oberammergau passion play 792
Obituary addresses biography 920
sermons 252.9
Object glass telescopes 522.24
teaching education 372.3
Objectives microscopy 578.2
Oblates monastic orders 271.76
Obligations social ethics 177.8
Oblique perspective desc. geom. 515.61
projection " " 515.3
Obliquity of ecliptic to equator 525.32
Oboe musical instrument 788.7
Observation errors probabilities 519.6
mental faculties 152
Observations astronomy 524
auxiliary, astron. 522.6
Observatories " 522.1
school apparatus 371.68
Observing chairs astronomy 522.28
powers education 372.3
Obsidian lithology 552.23
Obstetric operations 618.8
Obstetrics diseases of women 618.2
Occult sciences 133
Occultations and transits, astronomy 523.99
finding longitude 525.48
Occupations, injurious hygiene 613.6
mortality in public health 614.15
special dis. from 616
Ocean coast changes 551.36
currents phys. geog. 551.47
exploration 910.4
geography maps 912
life zoölogy 591.92

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Ocean telegraph 654.5
tides **525.6**
transportation sociology 387
useful arts 656
travel 910.4
Oceanica **ecclesiastical hist.** **279**
geography **919**
geology **559**
[1] **history** **990**
statistics **319**
travels **919**
Oceans **physical geography** **551.46**
Ochnaceæ botany 583.245
Octateuch **Bible** **222**
Octocorolla radiates 593.62
Odd Fellows secret societies 366.3
Odel, Anders, Swedish poetry 839.7144
[1] Odessa history 947.7
Odic force 134
Odontalgia dentistry 617.65
Odontology animal comp. anat. 591.43
descr. " 591.73
human " 611.3
Odontornithes fossils 568
Œcumenical councils, eccles. pol. **262.5**
relig. hist. **270.2**
Oehlenschläger, A. G. Dan. poet. 839.8161
Œsophagus anatomy 611.32
diseases of 616.32
Offal air pollution 614.763
Offensive animals econ. zoölogy 591.66
materials, storing, air pollu. 614.75
Offertory alms 264.9
organ music 786.86
sacred music 783.23
Office and apartment buildings, arch. 725.22
buildings " 725.23
tenure of civil service 351.4
training law education 340.7
Officers, army and navy lives 923.5
civil service " 923.5
organization 351.1
duties of public ethics 172.2
Offices, excise architecture 725.14
post " 725.16
public " 725.13
record " 725.15
Official functions civ. serv. officers 351.1
register, U. S., civil service 351.2
residences architecture 725.17
Officinal drugs, adulterations 614.351
Offspring **hygiene** **613.9**
Ogier, Guillelmus Dutch drama 839.3235
[1] Ohio, U. S., history 977.1
valley description 917.7
Oil, animal chemical analysis 543.9
Oil, animal chemical technology 665.2
coal economic geology 553.28
manufacture **665**
painting art 751
building **698.1**
refining, mineral air pollution 614.724
vegetable agriculture 633
chemical analysis 543.8
Oils adulterations 614.313
essential, chem. tech. 668.5
fixed, materia medica 615.34
protec. extern. agents 615.776
[1] Oise, France history 944.35
Olacales **botany** **583.26**
Olacineæ " 583.261
Olai, Ericus Swedish poetry 839.7113
Old age, mortality public health 614.135
therapeutics of 615.54
[4] **Bactrian language** **491.52**
[1] Castile Spanish history 946.3
travels 914.63
Catholic church 284.8
[4] **Egyptian language** **493.1**
[3] English language 427.01
French " 447.01
[4] **Norse** " **439.6**
literature 839.6
[4] **Persian language** **891.51**
[4] **Prussian** " **491.91**
red sandstone geology 551.74
[4] **Saxon language** **439.2**
literature 839.2
Testament **221**
biography 221.92
[1] Oldenburg, Germany histor, 943.52
travels 914.352
Oldham, J. English satire 827.45
Oleaceæ botany 583.71
Olefines organic chemistry 547.22
Oleomargarine, adulterations 614.326
chemical technology 664.3
Oleron, laws of, admiralty law 347.7
Olfaction physiology 612.86
pyschology 152.3
Oligarchy 321.5
Olive oil chemical technology 665.3
[1] Olonetz Russian history 947.2
Olozaga, Salustiano de, Span. oratory 865.51
Oltmans, J. F., Dutch fiction 839.3353
Olufsen, O. K., Danish drama 839.8257
Olympiads chronology 529.3
Olympic games, Grecian antiquities 913.38
[1] Oman, Arabia history 953.5
Omens delusions 133.3
Omentum anatomy 611.38
diseases of 616.38

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Omnigraph **engraving** **760**
Omnipotence doctr. theology 231.4
Omnipresence, " " 231.4
Omniscience, " " 231.4
Onagrarieæ botany 583.445
[1] Oneida Co., N. Y. history 974.762
Oneida community socialism 335.973
[1] Onondaga Co., N. N. history 974.765
[1] Ontario, Canada " 971.3
[1] Co., N. Y. " 974.786
Ontogeny embryology 591.3
Ontology philosophy 111
Onychophora articulates 595.5
Oölite geology 551.76
lithology 552.56
Oology ornithology 598.2
Oosporeæ algæ 589.5
fungi **589.24**
Ooze lithology 552.54
Opal economic geology 553.8
Open channels hydraulics 532.54
workings mining 622.31
Opening lib. and museums, Sunday 263.7
libraries on Sunday 024.4
Openings in roofs arch. construction 721.55
streets, sewerage 628.231
Opera, amusement 792
bouffe dramatic music 782.7
dramatic music **782**
ethics 175.2
houses architecture 725.82
recitative vocal music 784.2
Operations, calculus of 517.7
Operative surgery **617.9**
Operetta music 782.8
Ophicleide " 788.45
Ophidia reptiles 598.12
Ophiomorpha fishes 597.7
Ophiuridea zoölogy 593.94
Ophthalmia eye diseases 617.71
Ophthalmic surgery **617.7**
Ophthalmoscope 617.7
Opitz v. Boberfeld Germ. poetry 831.51
Opium analgesics 615.783
habit ethics 178.8
hygiene 613.82
narcotic poisons 615.961
traffic ethics 178.8
Opossums mammals 599.2
Oppian Greek poetry 883.4
Opposition of good and evil, heresies 273.2
Oppositions solar system 523.23
Optic nerve eye diseases 617.73
Optical crystallography 548.9
Optics **535**
Optimism philosophy 149.5
Optional studies curriculum 375.04
vaccination public health 614.4739
Oracles mind and body 133.3
Oral examinations education 371.27
[1] Orange Co., N. Y. history 974.731
[1] Orange Free State " 968.5
[5] **Orations** **English literature** **825**
Oratorios sacred music 783.3
Orators' lives, English 928.25
Oratory 808.5
sacred homiletics 251
Orbit of comets astronomy 523.63
earth " **525.3**
eye, etc. diseases 617.78
moon astronomy 523.33
plane of, in space " 521.21
position of, in plane " 521.22
Orbits of heavenly bodies **521.3**
[1] Orcades, Scotland history 941.12
Orchards agriculture 634
Orchestral music **785**
sacred music 783.1
Orchestrion music 789.7
Orchids botany 584.15
fertilization of, botany 581.16
Ordeal, trial by law 340.3
Order, public administration **351.75**
Orders, holy ministry 262.16
sacraments 265.4
in Council, 1807-8, Eng. hist. 942.073
the ministry, eccles. polity 262.16
monastic **271**
of architecture arch. design 729.32
knighthood heraldry 929.71
Ordinal Anglican ritual 264.037
Ordinances " " 264.035
religious **265**
Ordination eccles. polity 262.16
sacraments 265.4
sermons 252.7
Ordnance engineering 623.4
Ordo anomalus botany 583.899
Ore concentrators mining eng. 622.75
deposits **553.1**
dressing **mining eng.** **622.7**
[1] Oregon history 979.5
question U. S. hist. 973.5
Ores except iron **econom. geol.** **553.4**
iron " " 553.3
metallurgy **669**
mineralogy **549**
mining **622**
Orford, H. Walpole Eng. letters 826.61
Organ, cabinet **786.9**
music **786.8**
musical instrument **786.5**

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Organ **sacred music** **783.1**
Organic and inorganic matter, differences 577.1
chemical industries **660**
chemistry **547**
drugs **materia medica** **615.3**
material zoölogy 591.137
remains paleontology **560**
Organization **central government, Foreign states** **354**
city government 352.004
civil service 351.1
coöperation 334.1
courts law 347.97
laboring classes **331.87**
schools **education** **371.2**
Organography **botany** **581.7**
zoölogy **591.7**
Organs of generation **anatomy** **611.6**
comp. anat. 591.46
descr. " 591.76
over-use of certain, hygiene 613.65
Oriels architectural design 729.38
Oriental architecture 722
art **709.5**
churches **281.5**
customs **915**
history **950**
languages **490**
literature **890**
music theory 781.7
mythology 291
philosophers' lives 921.9
philosophy 181
question Turkey 949.6
religions **290**
societies 490.6
theologians' lives 922.1
Orientalia **literature** **890**
Orientals education 371.96
Orientation ecclesiology 246.1
Orifices hydraulics 532.52
Origen early Christian philosophy 189.2
Origin of English language 422.1
evil natural theology 216
individ. soul **metaphys.** **129**
knowledge " 121
language 401
life **576**
man, natural hist. of man 573.2
printing **655.11**
religious belief 201
sexes evolution 575.9
species " 575.8
speech philology 401
Original home of man ethnology 572.4
Original sin doct. theol. 233.2
Orinoco river travels 918.7
[1] Orissa, India, history 954.1
[4] language 491.45
[1] Orkneys, Scotland history 941.12
Orléans, C: duc d' French poetry 841.22
[1] **France** **history** **944.5**
[1] Co., N. Y. " 974.791
house of French history 944.063
Ormin English poetry 821.12
Ornament, carved **arch. dec.** **729.5**
painted " " **729.4**
Ornamental botany **716**
design 745
gardening, landscape **710**
joinery carpentry 694.7
plaster-work masonry 693.63
Ornaments costume 391.7
prehistoric **571.7**
toilet 646
[1] Orne, France history 944.23
Ornithology **598.2**
Orobanchaceæ botany 583.821
Orology physical geography 551.43
Orphan asylums 362.7
architecture 725.57
"Orphic poems" Greek epic poetry 883.5
Orrery astronomy 523.28
Orthodox church, holy or Greek 281.9
Orthodoxy heresies 273
Orthoepy comparative philol. 411
English language **421.5**
Orthographic projections 515.51
[3] **Orthography** **English language** **421**
Orthomorphic projections geodesy 526.82
Orthopedic appliances surgery 617.92
surgery **617.3**
Orthoptera articulates 595.72
Oryctology **paleontology** **560**
Os, dilatation obstetric operations 618.84
Oscillations of earth's crust 551.24
Osculation calculus 517.24
Osmium inorganic chemistry 546.94
Osmose of liquids 532.7
Osmosis physiology 612.382
[4] **Ossetic language** **491.56**
Ossian English literature 821.66
Ossoli, M. (Fuller) d' Amer. essays 814.31
Osteology, animal descriptive 591.79
comparative 591.49
human anatomy 611.71
Ostracism Greek antiquities 913.38
Ostracoda articulates 595.33
[1] Oswego Co., N. Y. history 974.767
[1] Otaheite history 996.2
travels 919.62

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Otfried German poetry 831.12
Otology anatomy of ear 611.85
[1]Otsego Co., N. Y. history 974.774
Otto I. German history 943.022
II. " " 943.022
III. " " 943.022
IV. " " 943.025
[1]Ottoman empire " 949.6
Otway, T. English drama 822.45
Oudaan, Joachim Dutch drama 839.3236
[1]Oudh, India history 954.2
Out-buildings architecture 728.9
Outcrop geology 551.85
Out-door sports 796
Outfall sewerage system 628.217
sewers 628.27
Outlawry criminal law 343
[2]Outlines, compends, see subject.
Outlining drawing 741
Outlooks landscape gardening 717
Outposts military science 355
Ovaries anatomy 611.65
Ovariotomy surgery 617.46
Ovary diseases of women 618.11
Over-hours hygiene 613.61
mantels fixed furniture 729.95
use of certain organs hygiene 613.65
Overfalls hydraulics 532.53
Overflows sewer appurtenances 628.258
Overshot wheels mechanical eng. 621.22
Overskou, T: Danish drama 839.8264
Overstrain, physical hygiene 613.73
Overstudy school hygiene 371.71
Overture orchestral music 785.5
Overwork hygiene 613.61
mental mental hyg. 131
Ovid Latin poetry 871.2
Ovum, pathology of pregnancy 618.32
removal obstetric opera. 618.88
Owners, absentee and alien 333.4
liability of building 692.9
Ownership, land 333
Oxalate of cerium therapeutics 615.735
Oxalates mineralogy 549.79
Oxenstjerna, J. G. Swedish poetry 839.7154
[1]Oxford, England history 942.57
travels 914.257
movement 283
University 378.42
Oxids mineralogy 549.5
Oxygen, chemistry 546.21
compounds, mineralogy 549.5
group, inorgan. chemistry 546.2
Oxytocics therapeutics 615.766
Oysters fisheries 639
food 643
Oysters, preserved pub. health 614.319
zoölogy 594.1
Ozocerite economic geology 553.27
Ozone chemistry 546.21
hygiene 613.16
Pachyderms zoölogy 599.6
[1] **Pacific Islands, Polynesia, hist. 996**
travel 919.6
ocean physical geography 551.465
[1] **slope, U. S. history 979**
[1] **states " " 979**
Paddock lectures apologetics 239.05
[1] Padua history 945.3
travels 914.53
Pædiatrics medicine 618.9
Pædogenesis zoölogy 591.163
Pagan architecture 722
Paganism 290
Pageants customs 394.5
Paging machines printing 655.36
Pail system sanitation 628.42
Pailleron, Edouard French drama 842.87
Pain sense physiology 612.884
Painless extinction of animal life 614.971
Paint, prehistoric 571.72
Painted decoration arch. dec. 729.4
Painters' lives 927.5
Painting fine art 750
house, sign, etc. 698.1
Paintings, collections of, galleries 708
engravings from 750
Paints chem. technology 667.6
Palaces architecture 728.3
of rulers arch. 725.17
[1] Palatinate, Upper, Germany hist. 943.34
[3] Paleography English language 421.7
inscriptions 417
Paleolithic age prehistoric arch. 571.1
Paleontology 560
[1] Palermo history 945.8
travels 914.58
Palestine ancient history 933
[1] modern " 956.9
pre-Judaic history 939.45
travels 915.69
Palestrina sacred music 783.4
[4] **Pali language 491.3**
Palimpsests rare mss. 091
Palingenesis metaphysics 129.4
Palladium inorganic chemistry 546.98
Palladius Danish miscellany 839.8824
Pallium sacred ornaments 247.6
Palm, J. H. van der Dutch essays 839.3451
Palmæ botany 584.5
Palmieri, Matteo Italian essays 854.22
Palmistry magic 133.6

Palmyra ancient history 939.43
Paludan-Müller, F. Danish poetry 839.8167
Pamphlets mis. collections 040
preservation of 025.4
on special topics see subject
Pamphylia ancient history 939.29
Panætius Greek philosophers 188.4
[1] Panama history 986
Pananti, Filippo Italian satire 857.67
Pancreas anatomy 611.37
diseases of 616.37
physiology 612.34
Pancreatic fluid " 612.34
secretions animals 591.143
Pancreatine aids to digestion 615.7342
Pandaneæ botany 584.61
Pandects Roman law 349.375
Panelled construction carpentry 694.5
Panels, carved, arch. decoration 729.56
painted " " 729.46
Panics, commercial political econ. 332
[4] Panjabi language 491.42
Pannonia ancient history 939.86
Panopticon prison system 365
Pantheism natural theology 212
philosophy 147
Pantheon architecture 722.7
Pantomimes music 782.9
Panzacchi, Enrico Italian essays 854.88
Papacy eccles. polity 262.13
Papal bulls ecclesiastical polity 262
conclaves " " 262.13
infallibility " " 262.13
States, Italy history 945.6
supremacy, Italian " 945.03
Papaveraceæ botany 583.122
Paper covers library books 025.7
hanging trade 698.6
in books publishing 655.53
manufacture 676
mills architecture 725.46
money 332.5
roofing building 695.7
Paphlagonia ancient history 939.31
[1] Papua history 995
Papular affections of skin 616.51
Papyrus manuscripts 091
[5] Parables English literature 828
New Testament 226.8
Parabola analytical geometry 516.25
geometry 513.25
Paraboloid analytical geometry 516.45
Parabosco, Girolamo Italian fiction 853.45
Paracelsus mediæval philos. 189.5
Paradise, garden of Eden, Bible geog. 220.91
Genesis 222.11
Paradise primitive home of race 572.4
theology 236.6
Paradisi, Agostino Italian poetry 851.61
Paraffin chem. technology 665.4
Paraffins organic chemistry 547.21
Paraffining building material 691.2
[1] Paraguay history 989
Parallax, lunar astronomy 523.31
practical " 522.91
solar " 523.92
stellar " 523.81
terrestrial " 525.16
Parallel forces physics 531.24
lines geometry 513.13
perspective descr. geom. 515.61
planes geometry 513.33
Parallelism Scripture 220.88
Paralysis diseases 616.842
Parasites, animal diseases 616.961
of animals animal hyg. 614.92
pathology of animals 591.2
plants 581.23
vegetable diseases 616.969
Parasitic animals 591.69
diseases dermatology 616.57
pathology 616.96
public health 614.55
plants 581.69
Parchment paper making 676
Parenchymatous absorption phys. 612.388
Parent and child law 347.6
Parents ethics 173.5
Parian chronicle Arundel marbles 481.7
Greek history 938
Parietales botany 583.12
Parini, Guiseppe Italian satire 857.64
[1] Paris, France history 944.36
travels 914.436
congress of, 1856 intern. law 341.1
expositions 606
Parish care of sick, fallen, etc. 258
ecclesiastical polity 262.2
government England 352.0423
law 352
libraries 027.8
missions theology 269
work, societies for 256
Park buildings architecture 725.76
Parks hygiene 613.75
of ground 614.783
public, landscape gardening 711
local government 352.7
Parliament constitutional law 342.42
England 328.42
houses of arch. 725.11
Parliamentary blue books 328.424

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Parliamentary control **admin.** 351.96
debates 328.422
law 328.1
practice, legis. bodies 328.1
reform England 328.42
Parlor magic 793
pastimes 793
Parmenides Greek philosophers 182.3
Parnell, T. English poetry 821.52
Parny, E. D. D. French poetry 841.57
Parochial libraries 027.8
schools and libraries 257
education 377.5
[3] **Parodies** English literature 827
Parquetry floors and flooring 721.66
Parricide criminal law 343
Parrots zoölogy 598.7
Parsee dualism Christian heresies 273.2
Parseeism, Parsees 295
Parseval Grandmaison, F. A.
French poetry 841.63
[3] **Parsing** **English grammar** 425.2
Parsis 295
Part songs **vocal music** 784.8
Parthenogenesis botany 581.162
zoölogy 591.162
Parthenon architecture 722.8
Parthia ancient history 935.6
[3] Particles English etymology 422.9
[3] syntax 425.9
Parties, political 329
social 793
Partington, Mrs. American humor 817.34
Partisan warfare military science 355
Partnership law 347.7
Parturition **obstetrics** 618.4
Party conventions, polit. science 329
feeling in religion, use of 280
Paruta, Paolo Italian essays 854.47
Parzival legends 398.2
[1] Pas de Calais, France history 944.27
Passavanti, Jacopo Italian essays 854.12
Passeroni, G. C. " satire 857.62
Passiflorales **botany** 583.45
Passifloreæ " 583.456
Passion music 783.3
plays English literature 822.1
general history 809.2
Oberammergau theat. 792
religion 244
Passionists monastic orders 271.6
Passions philosophy 157
Pastel drawing 741
Pasteurism protective inoculation 614.477
Paston letters, English history 942.04
literature 826.2
Pastoral letters 252.1
poetry English lit. 821.06
theology 250
visitations 253
Pastors **ecclesiastical polity** 262.1
[1] Patagonia history 982
Patent blocks printing 655.22
law law 347.7
patents 608
medicines adulterations 614.353
State control 614.27
types printing 655.23
Patents building 690.8
useful arts 608
Pathological anatomy, study of dis. 616.078
Pathology **botany** 581.2
medicine 616
mental 131
of labor 618.5
pregnancy 618.3
puerperal state 618.7
zoölogy 591.2
Patience ethics 179.9
Patriarchal institutions pol. science 321.1
Patriarchs of Bible lives 220.92
Patricide law 343
Patriotism ethics 172.1
Patriots' lives 923
Patristic philosophers' lives 921.9
philosophy 189.2
theology 230.1
Patronage ethics 177.5
Paul I. Russian history 947.07
Paulding, J. K. American humor 817.23
Pauper asylums 362.5
architecture 725.55
labor 331.6
Pauperism 339
and illiteracy, pub. schools 379.22
Pavements road engineering 625.8
sanitation 628.47
Pawnbroking, loan institutions 332.34
Peabody fund, education 373.75
Peace and war ethics 172.4
jubilee Boston 780.973
society international ethics 172.4
Peaches agriculture 634
Peacock, T. L. English fiction 823.76
Pearls precious stones 553.8
Pears agriculture 634
Peasantry political economy 331.8
Peasants' war, German history 943.031
Peat economic geology 553.21
fuel chem. tech 662.6
domestic econ. 644
Pedagogics 371

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Pedalineæ botany 583.85
Pedata zoölogy 593.97
Pedersen, Kristiern, Danish miscel. 839.8821
Pedestals architectural design 729.32
Pedestrianism 796
ethics 175.7
Pedigrees genealogy 929.2
Pediments arch. construction 721.86
design 729.37
walls 721.28
Pedobaptism 265.1
[1] Peebles, Scotland **history** 941.46
Peerage heraldry **929.7**
[4] **Pehlevi language** **491.53**
[1] Peking, China history 951.1
travels 915.11
Pelagianism heresies 273.5
Pelasgian architecture 722.6
[1] Pelew Islands history 996.6
Pellico, Silvio, Italian drama 852.72
Peloponnesian war Greek history 938.05
Peloponnesus, ancient history 938.6
[1] **modern** **949.5**
Pels, Andries, Dutch drama 839.3242
Pelvis anatomy 611.96
diseases of women 618.13
surgery 617.56
[1] Pembroke, Wales history 942.99
Penæaceæ botany 583.934
Penal colonies, criminal law 343.2
law **343**
Penance theology 265.6
Pencils writing materials 652
Pendulum apparatus geodesy 526.72
operations " 526.73
physics 531.53
Peninsular war Spanish history 946.06
Penis anatomy 611.64
diseases of 616.66
Penitential music, cathedral services 783.27
Penitentiaries 365
architecture 725.61
Penmanship 652
[1] **Pennsylvania, U. S. history** **974.8**
Penology criminal law 343.2
Pensions, army and navy 351.5
civil service 351.5
teacher's 371.17
Penstocks sewer appurtenances 628.257
Pentateuch **Bible** **222.1**
People's party, U. S. politics 329.84
Peperino economic geology 553.58
Pepper adulterations 614.314
Pepsin aids to digestion 615.7342
materia medica 615.35
Perception **152**
Percussion caps explosives 662.4
instruments music **789**
diagnosis 616.074
Perez, Antonio, Spanish letters 866.32
Perfection ethics 171.3
Perfectionists sects 289.9
Perforating telegraphs 654.3
tools 621.95
Perfumery chemical technology 668.5
toilet 646
Pericardium anatomy 611.11
Peridotite Plutonic rocks 552.38
Perigee moon 523.33
Peringskjöld, Johan Swedish misc. 839.7833
Period of decline physiology 612.67
full development phys. **612.66**
revolution earth 525.31
Periodical clubs self education 374.2
Periodicals, general **050**
[2] on special topics see subject
Periosteum, dental, dis. of dentistry 617.63
diseases 616.71
Peripatetic philosophers **185**
Peritoneum, admin. of medicine by 615.66
anatomy 611.38
diseases of 616.38
Peritonitis diseases 616.38
obstetrics 618.73
Periüterine diseases of women 618.13
Perjury law 343
Perkinism cures 615.856
Permutation arithmetic 511.5
Peronosporeae botany 589.25
Perpetual motion 531.8
Perrault, C: French fiction 843.47
Persecutions theology **272**
Perseverance of the saints 234.9
Persia ancient history 935.5
[1] modern " 955
travels 915.5
Persian architecture 723.3
ancient 722.5
[4] **Persian language** **491.55**
[4] **old** **491.51**
philosophers 181.5
wars Greek history 938.03
Persius Flaccus, Aulus, Latin satire 877.4
Person of Christ doctrinal theol. **232**
Personal equation machine, astron. 522.54
practical " 522.97
hygiene medicine **613**
liberty Eng. law 347.1
names etymology 929.4
narratives Amer. civil war 973.78
autobiography **920**
property English law 347.3

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Personal religion 248
rights 347.1
taxation, political economy 336.23
Personales botany 583.8
Personality dogmatics 233.6
metaphysics 126
Persons, disinfection contag. dis. 614.48
Perspective descrip. geometry 515.6
drawing 742
effect arch. design 729.15
linear 515.61
projections geodesy 526.81
Perspiration therapeutics 615.743
Persuasion logic 168
[1] Perth, Scotland history 941.32
Perticari, Giulio Italian essays 854.68
Perturbations earth 525.34.
of heavenly bodies 521.4
Peru administration 354.85
antiquities 913.85
architecture 720.985
botany 581.985
finance 336.85
geology 558.5
[1] history 985
maps 912.85
schools 379.85
statistics 318.5
travel 918.5
treaties 341.285
Peruvian ancient architecture 722.9
[4] **Peshito language 492.3**
Pessimism philosophy 149.6
Pestalozzian system of education 371.44
Pestifuges museums 579.82
Pestilences public health 614.49
Pests agriculture 632
in museums 579.81
Petards military engineering 623.2
Peter, St. I. epistle 227.92
II. " 227.93
the Great Russian history 947.05
Peters, S. Andrew Am. humor 817.15
Petersen, N. M. Danish essays 839.8461
Petition, right of Eng. const. hist. 342.429
Petitions administration 351.97
Petralogy lithology 552
Petrarca, Francesco Italian poetry 851.18
Petri, Lauretius Swedish " 839.7122
Olaus " " 839.7121
Petrifaction, paleontology 560
Petrography 552
Petroleum chemical technology 665.5
economic geology 553.28
mineral 549.8
Petrology geology 552
Petronius Arbiter Latin satire 877.5
Peutingerian tables anc. geog. 913
Pfaffe Amis, Der German satire 837.21
Phædrus Latin poetry 871.6
Phagedæna diseases 616.941
Phalaris Greek letters 886.3
Phanerogamia botany 582
Pharmacists' registration State control of 614.24
Pharmacopœial drugs adulterations 614.351
Pharmacopœias materia medica 615.11
Pharmacy econ. botany 581.63
practical materia med. 615.4
Pharyngobranchii fishes 597.1
Pharynx anatomy 611.32
diseases of 616.32
Phases of moon 523.32
Phedo Greek philosophers 183.7
Phenanthrene organic chemistry 547.28
Phenicia ancient history 939.44
[1] modern " 956.9
Phenician architecture 722.3
[4] **language 492.6**
philosophers 181.8
Phenols organic chemistry 547.3
Phenomena in labor obstetrics 618.43
nutritive, physiology 612.39
vital 577
Phi Beta Kappa 371.85
[1] Philadelphia, Penn. history 974.811
travels 917.4811
Philanthropists' lives 923.6
Philanthropy ethics 177.7
Philately postage stamps 383
Philemon epistles 227.86
Philharmonics, societies 780.6
Philip I. French history 944.022
II. " " 944.023
III. " " 944.024
IV. " " 944.024
V. " " 944.024
VI. " " 944.025
Philip German history 943.025
Philip II. Spanish " 946.04
III. " " 946.051
IV. " " 946.052
V. " " 946.055
Philippians epistles 227.6
[1] Philippine Islands history 991.4
Philip's, king, war, New Eng. history 974
Philistines ancient history 939.45
Phillips, Wendell Amer. oratory 815.34
Philo Greek philosophers 186.4
Philologists' lives 924
Philology 400
classical 470-489

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Philoprogenitiveness phrenology 139
zoölogy 591.56
Philosophers' lives **921**
Philosopher's stone alchemy 540.1
Philosophical apparatus 530.7
classification of knowl. 112
instrument making 681
magazines 105
systems **140**
Philosophy **100**
biography of **921**
natural **530**
[2] of special topics see subject
Philydraceæ botany 584.35
Phlebitis puerperal diseases 618.77
Phlegmasia dolens " " 618.77
Phlogiston chemistry 540.1
Phocis ancient history 938.3
Phœnicia " " 939.44
[1] modern " 956.9
Phœnician architecture 722.3
[4] **language** **492.6**
philosophers 181.8
Phonetic short-hand 653
[3] spelling English language 421.4
Phonics elementary education 372.4
Phonograph acoustics 534.86
Phonography 653
Phonolite lithology 552.26
Phonology 414
Phosphates as fertilizers agricul. 631
econ. geology 553.64
mineralogy 549.72
Phosphorescence 535.3
Phosphorescent animals 591.59
Phosphorus compounds air pollut. 614.728
inorganic chemistry 546.18
materia medica 615.218
non-metallic poisons 615.924
Photo-electrotyping 777
Photo-engraving 777
Photographic chemistry 771
method transits of Venus 523.95
Photographs, collections of 779
of animals in motion
art anatomy 743
zoölogy 591.47
comets 523.69
moon 523.39
planets 523.49
sun 523.79
Photography **770**
astronomy 522.63
optics 535.85
Photo-lithography 775
Photometric observations stars 523.82
Photometrics optics 535.2
Photometry astronomy 522.62
Photo-zincography 776
[3] Phrase books English language 428.2
Phrenologists' lives 920.9
Phrenology 139
Phrygia ancient history 939.26
Phthisis lung diseases 616.246
public health 614.542
Phyllite lithology 552.44
Phyllopoda zoölogy 595.32
Physical astronomy **523**
capacity of women educ. 376.1
conditions mental charac. 136.6
education hygiene **613.7**
school " 371.7
geography **551.4**
geology **551**
laboratories architecture 727.4
properties of blood phys. **612.11**
crystals 548.8
sciences **500**
surroundings mental char. 136.2
theory of music 781.1
units physics 530.8
Physicians, ethics 174.2
lives of 926.1
registration, state cont. of 614.24
Physics **530**
molecular **539**
Physiognomy 138
Physiography **551.4**
Physiological acoustics 534.7
botany **581**
chemistry 612.01
optics 535.7
zoölogy **591**
Physiology **612**
animal **591.1**
mental 131
of labor obstetrics 618.4
pregnancy 618.21
puerperal state 618.6
vegetable **581.1**
Phytography, desc. botany **580**
Phytolaccaceæ, botany 583.915
Piano and organ **786**
music **786.4**
Picard, L. B. French drama 842.67
[1] Picardy, France history 944.26
Piccolo musical instrument 788.5
Piccolomini, Alessandro, Ital. essays 854.42
Picenum ancient history 937.4
Pictorial art **fine arts** **700**
Picts ancient history 936
Scottish " 941.01

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Picture galleries 708
Picturesque beauty æsthetics 701
views and tours 910
[1] Piedmont, Italy history 945.1
Pierce, F., presidency of 973.66
Pierpont, J. American poetry 811.26
Piers **arch. construction** 721.3
design 729.32
bridges 624.1
river and harbor eng. 627.3
Pietists heresies 273.7
Piety, practical 240
Pigeons zoölogy 598.6
Pigmentary changes dermatology 616.55
Pigments chemical tech. 667.6
inspec. of, adulterations 614.37
Pigmies, human 573.8
Pigs domestic animals 636.4
Pilasters arch. construction 721.86
design 729.32
carved arch. decor. 729.57
painted " " 729.47
Pile driving 624.1
Piles diseases 616.35
foundations 721.16
sand foundations 721.16
Pilgrim fathers, Mass. history 974.48
Pilgrimages religious 248
Pilocarpine therapeutics 615.743
Pilot laws 347.7
Pilots protection of life 614.866
seamanship 656
Pindar Greek poetry 884.5
Pindar, Peter English satire 827.65
Pindemonte, Ippolito, Italian poetry 851.63
Pineapple agriculture 634
botany 584.22
Pines " 585.2
Pinnipeds mammals 599.7
Pioneers' lives 923.9
Piperaceæ **botany** 583.925
Pipes, elephant American antiquities 913.73
hydraulics 532.54
on houses, sewer ventilation 628.234
prehistoric archæology 571.26
sewer 628.22
steam heating 621.19
water works 628.15
Piracy history 910.4
law 343
Pirates' lives 910.4
Piron, Alexis French drama 842.55
Pisa, Guido da, Italian fiction 853.13
[1] Pisa history 945.5
travels 914.55
Pisciculture business 639
Pisé walls 721.23
Pisidia ancient history 939.27
Pistoia, Cino da Italian poetry 851.16
Piston blowers mechanical eng. 621.61
pumps engineering 621.65
Pit dwellings prehist. archæology 571.82
[1] Pitcairns Island history 997
travels 919.7
Pitcher plants, botany 583.121
Pitchstone lithology 552.23
Pitillas, Jorge, Spanish satire 867.41
Pitt, W:, earl of Chatham, Eng. oratory 825.61
Pitt, W:, 1759–1806 " " 825.66
Pittosporeæ botany 583.141
[1] Pittsburg, Pa., history 974.886
travels 917.4886
Pius IV. creed 238.2
Placenta obstetrics 618.36
removal in labor 618.87
retention in " 618.56
Placers economic geology 553.13
Places, names of 929.4
etymology 929.4
Placoids paleontology 567.3
zoölogy 597.3
Plade, Peder Danish miscellany 839.8824
Plagiarism literary methods 029
Plague diseases 616.923
Plagues, history of public health 614.49
Plain song cathedral music 783.25
Plains of the moon astronomy 523.34
physical geography 551.45
Plan **architec. design** 729.2
Planche, J. B. G. French essays 844.73
Plane geometry 513.1
inclined physics 531.85
loci **analytical geom.** 516.1
of orbit in space astron. 521.21
perspective 515.61
trigonometry 514.5
Planes analytical geometry 516.32
descriptive " 515.11
geometry 513.1
inclined canal eng. 626.5
modern geometry 513.51
solid " 513.31
Planetarium descript. astronomy 523.28
Planetary system, constitution of 523.25
Planets **descript. astron.** 523.4
distributive laws 523.21
maps and observ. 524.4
mutual action 521.41
non-sphericity 521.43
theoretical astronomy 521.5
Planimetry surveying 526.97
Planing machines mechanical eng. 621.91

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

		Picture Poisoned
Planisphere	astronomy	522.78
Plans for building		**692**
	libraries library buildings	022.3
	of cities maps	**912**
Plantagenets	**English history**	**942.03**
	Irish "	941.53
Plantagineæ	botany	583.899
Plantation songs		784.7
Planting	agriculture	631
Plants		**580**
	and animals differences	577.5
	classification of	580.1
	gardening	716.1
	geological agents	551.97
	landscape gardening	**710**
	nature-printing from	655.37
	paleontology	**561**
Plaster	building material	691.5
	casts sculpture	**730**
	ceilings architec. construc.	721.75
	of Paris agriculture	631
	art	731
Plastering	**masonry**	**693.6**
Plastic surgery		617.95
Platanaceæ	botany	583.971
Plate	carving	736
	domestic economy	645
	glass manufacture	666.1
	insurance	368.6
	manufacture	671
Plated ware	"	671
Platen Hallermünde	Ger. poetry	831.68
Plating books,	library economy	025.2
Platinum	inorganic chemistry	546.92
Plato	ancient philosophy	184.1
	Greek literature	888.4
	idealism	141
Platonic philosophy		**184**
Platonists, new		**186**
[4] **Platt Deutsch language**		**439.4**
	literature	**839.4**
Plautus	Latin drama	872.3
Play or amusement	hygiene	613.74
Players' lives		927.92
Playing cards		795
Playright		655.62
[5] **Plays**	**English drama**	**822**
	mystery history	809.2
	religion	244
	theatre	792
	parlor amusements	793
Pleading		347.92
Pleasure		157
Plectral stringed instruments		**787**
Pleiocene period	geology	551.783
Pleura	anatomy	611.25
Pleura, diseases of		616.25
Pleurisy	diseases	616.25
Pleuro-pneumonia	cattle disease	619.2
	diseases	616.241
Pliny	Latin letters	876.2
Plong, Carl	Danish poetry	839.8168
Plot of 1604-6,	English history	942.061
1679	" "	942.066
Plotinus	Greek philosophers	186.4
Plotting	surveying	526.96
Plow	agriculture	631
Plumbagineæ	botany	583.671
Plumbago	economic geology	553.26
Plumbing		**696**
	house drainage	628.6
	laws	696.9
Plurality of worlds	astronomy	523.13
Plutarch	Greek literature	888.8
	philosophers	186.2
Plutology	**polit. econ.**	**330**
Plutonic rocks	**lithology**	**552.3**
[1] Plymouth Co., Mass.	history	974.48
Plymouth brethren	sects	289.9
Pneumatic aspiration	therapeutics	615.815
	differentiation "	615.836
	tubes communication	654.8
Pneumatics		**533**
Pneumatology	metaphysics	128
Pneumonia	diseases	616.241
Podostemaceæ	botany	583.921
Poe, Edgar Allan	American poetry	811.32
Poetical books of Bible		**223**
[5]	selections, Eng. literature	821.08
Poetry, Amer. civil war		973.791
[5]	**English literature**	**821**
	French "	**841**
	German "	**831**
	Greek "	**881**
	humorous Eng. lit.	**827**
	Italian literature	**851**
	Latin "	**871**
	macaronic Eng. lit.	**827**
	philosophy of	808.1
	sacred hymnology	**245**
	satirical Eng. lit.	**827**
	Spanish literature	**861**
	other literature see table 5	
Poets' lives		**928**
	English	928.21
	French	928.41
	German	928.31
	Italian	928.51
	Spanish	928.61
Pointed architecture		**723.5**
Points	modern geometry	513.51
Poisoned wounds	surgery	617.148

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Poisonous cosmetics adulterations 614.355
secretion animals 591.145
Poisons chemical analysis 543.5
effects of diseases 616.97
medical jurisprudence 340.6
sale of State control 614.28
therapeutics 615.9
vegetable economic botany 581.69
[1] **Poitou, France history** 944.6
Poker amusements 795
ethics 175.5
[4] **Polabian language** 491.89
[1] Poland history 943.8
insurrection of hist. 947.07
[4] **language** 491.85
literature 891.85
partition of " 947.06
[1] Russian history 947.5
Polar projections descriptive geom. 515.54
[1] regions, antarctic history 999
travel 919.9
[1] arctic history 998
travel 919.8
Polariscope optics 535.5
Polarity in rocks geology 551.84
Polarization of light astronomy 522.65
chemistry 544.7
optics 535.5
Polars modern anal. geom. 516.55
geometry 513.55
Polemic sermons 252.2
theology 230
Polemoniaceæ, botany 583.761
Polemoniales " 583.76
Poles modern anal. geom. 516.55
geometry 513.55
telegraph communication 654.4
Police, local gov. 352.2
measures administration 351.74
medical State control 614.29
sanitary administration 351.77
stations architecture 725.18
Polish chemical technology 667.7
[4] **Polish language** 491.85
literature 891.85
Polishing painting 698.3
Politeness ethics 177.1
etiquet 395
Political associations 363
economists' lives 923.3
economy 330
ethics 172.1
history Amer. civil war 973.71
organizations 363
parties 329
science 320
Political sermons 252.6
status of woman 396.3
Politicians' lives 923.2
Politics, American 329
British 329.942
morals of 172.1
Polity, ecclesiastical 262
Poliziano, Angelo Italian drama 852.22
poetry 851.24
Polk, J. K., presidency of 973.61
Polka piano music 786.44
Poll-tax political economy 336.25
Pollen fertilization 581.3
Pollution, air, by cemeteries 614.652
public health 614.7
water by cemeteries 614.651
supply of towns 628.16
Polo amusements 797
Polonaise piano music 786.44
Polyandry customs 392.6
ethics 173.2
Polycarpeæ botany 583.155
Polychromatic ornament 747
Polycystina zoölogy 593.14
Polyedrons geometry 513.34
Polygaleæ botany 583.143
Polygalineæ " 583.14
Polygamy criminal law 343
customs 392.6
ethics 173.2
hygiene 613.89
Mormonism 298
Polyglot Bibles 220.5
Polygonaceæ botany 583.917
Polygoneutic variations animals 591.154
Polygons geometry 513.16
Polygraphy special libraries 080
[2] see subject for topical collections
Polyhedra geometry 513.34
Polymorphic variations animals 591.151
Polymorphism crystallography 548.3
[1] **Polynesia history** 996
languages 499
travels 919.6
Polypetalæ botany 583.1
Polyphonic school music 783.4
Polyps zoölogy 593.6
Polypus diseases 616.992
Polytheism 290
Polyzoa zoölogy 594.7
[1] Pomerania, Germany history 943.16
Pomology agriculture 634
Pompeii description 913.377
Pompey's pillar Egyptian antiquities 913.32
monuments 718
Pompignan, J. J. de F., French poetry 841.53

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Ponds, artificial landscape garden. 714
Ponies students' honor 371.81
Ponsard, François French drama 842.82
Pontederiaceæ, botany 584.34
Pontifical States Italian history 945.6
Pontificate, Roman eccles. polity 262.13
Pontoppidan, Erik Dan. miscellany 839.8841
Pontus ancient history 939.33
Poolselling ethics 175.9
Poor-houses architecture 725.55
asylums 362.5
pauperism 339
laws local government 352.9
pauperism 339
rates 336.28
Poot, H. C. Dutch poetry 839.3142
Pope, A. English " 821.53
satire 827.55
Popery ecclesiastical polity 262.13
Popes church history 282
lives 922.2
Popham colony Maine history 974.1
Popish plot, 1679 English history 942.066
Poppy botany 583.122
Popular ballads 784.4
delusions 133
education public 379
elections suffrage 324
errors 133
lectures self-education 374.5
science 500
summer schools self-educ. 374.6
tumults public order 351.752
Population statistics 312
Porcelain 738
chemical technology 666.5
painting 738
Porifera zoölogy 593.4
Pork packing air pollution 614.743
trichinæ public health 614.562
Porosity properties of solids 539.2
Porous terra construction building 693.4
Porphyrite lithology 552.31
Porphyry Greek philosophers 186.4
Porphyry economic geology 553.56
lithology 552.31
Port Royal heresy 273.7
persecutions 272.5
Porta, G. della, talian drama 852.45
Portable engines mechan. eng. 621.15
observatories astron. 522.15
Portents 133.3
Porter, Jane English fiction 823.75
Noah Amer. philosophers 191.6
Porter's lodges architecture 728.91
Portland cement economic geology 553.68
Portland cement manufacture 666.9
vase pottery 738
[1] Porto Rico history 972.95
Portrait painting 757
Portraits, catalogues of 757
collections of painting 757
engraved 769
Ports, establishment of tides 525.64
[1] Portsmouth, Eng. history 942.27
travels 914.227
[1] Portugal history 946.9
travel 914.69
[4] Portuguese language 469
literature 869
Romanesque arch. 723.46
Portulaceæ botany 583.156
[1] Posen, Germany history 943.13
Posidonius Greek philosophers 188.5
Position, calculus of analyt. geom. 516.8
of body in orbit astron. 521.23
space " 521.24
orbit " 521.22
Positivism philosophy 146
Posology materia medica 615.14
Post mortem examinations pathol. 616.079
Post-Nicene apostolic church 281.4
office administration 351.816
dep't U. S. admin. 353.4
offices architecture 725.16
sociology 383
pliocene period geology 551.79
Postage-stamps 383
Postal service 383
telegraph 384
Postl, K. German fiction 833.74
Postludes organ music 786.85
Posts carpentry 694.4
Pot-pourris orchestral music 785.9
Potash chemical technology 661.3
Potassium inorganic chemistry 546.32
Potato agriculture 633
botany 583.79
disease agriculture 632
botany 581.21
Potential statical electricity 537.21
Potentials of ellipsoids geodesy 526.11
[1] Potenza, Italy history 945.77
Potgieter, E. J. Dutch essays 839.3453
Potter, Dirc " poetry 839.3115
Potters' clays, economic geology 553.61
Pottery art 738
manufacture 666.3
painting 738
prehistoric 571.55
works architecture 725.48
Poultry, diseases of 619.5

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

INDEX

Poultry domestic animals 636.5
Poverty pauperism 339
Powder, baking adulterations 614.315
chemical technol. 664.6
gun manufactures 662.3
manufacture 662.3
protective external agents 615.776
Power of removal civil service 351.92
transmission of 621.8
Powers, separation of, Englisn gov. 354.4202
French " 354.4402
German " 354.4302
U. S. " 353.02
Practical astronomy 522
chemistry 542
mining 622 2
pharmacy materia medica 615.4
religion 240
sermons 252.4
Practice of medicine 616
[1] Prague history 943.71
travels 914.371
Prairies physical geography 551.58
Praise meetings public worship 264.2
[4] Prakrit language 491.2
Pram, K. H. Danish poetry 839.8155
Prati, Giovanni Italian " 851.78
Prato, Giovanni da " fiction 853.25
Prayer-books, Anglican 264.03
church ritual 264.1
family 249
gauge natural theology 217
Lord's Gospels 226.9
meetings 264.7
natural theology 217
of Manasses, Apocrypha 229.6
private personal relig. 248
Preachers' lives 922
Preaching 251
Pre-Adamites 573.3
Precedence heraldry 929.7
Precession practical astronomy 522.95
theoretical " 521.9
Precious metals metallurgy 669.2
mineralogy 549
stones economic geology 553.8
mineralogy 549
Precipitation disposal of sewage 628.34
practical chemistry 542.6
Predestination doctrinal theology 234.9
Predicting machines tides 525.68
Predictions 133.3
Preëmption state land 336.13
Preëxistence of the soul 129.3
Prefect French local gov. 352.0444
[3] Prefixes English etymology 422.2
Pregnancy obstetrics 618.2
pathology of 618.3
Prehistoric archæology 571
man, nat. hist. of man 573
Prelacy ecclesiastical polity 262.12
Preludes organ music 786.83
Preordination, doctrinal theology 234.9
Preparatory schools, private 373
[3] Prepositions English etymology 422.9
Pre-Raphælitism 759.9
Presages 133.3
Presbyter ministry 262.14
Presbyterian orders in ministry 262.18
Presbyterians 285
lives 922.5
Presbytery ecclesiastical polity 262.4
Prescience Divine attribute 231.4
Prescription-writing materia medica 615.14
Presentations in labor obstetrics 618.42
Preservation of fruits, vegetables 664.8
meat and fish 664.9
Preservatives building 691
zoölog. collections 579.2
Preserving cookery 641
President French gov. 354.4403
U. S. " 353.03
Presidential elections U. S. 324.73
Presidents' lives 923.1
Press, hydraulic engineering 621.26
science 532.81
journalism 070
liberty of 323
morals of 179.1
printing 655.31
public order 351.751
work printing 655.32
Pressing, hydraulic printing 655.33
Pressure gauges pneumatics 533.82
of air meteorology 551.54
blood physiology 612.14
clothing hygiene 613.484
liquids hydraulics 532.1
sense physiology 612.883
Prestidigitation 791
Pretenders English history 942.07
Prevention of contagious diseases 614.44
fire, protection of life 614.841
Prevost d' Exiles, A. F., French fiction 843.53
Priapus mythology 291
Prices of books library admin. 025.2
political economy 338.5
Pride ethics 179.8
Priest ministry 262.14
Priesthood, Christian ministry 262.1
Priests, celibacy of 254
ethics 176.2

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Priests' lives, Roman Cath. 922.2
Primacy ecclesiastical polity 262.13
Primary schools methods 372
state system 379.18
Prime numbers arithmetic 511.3
vertical astron. instruments 522.47
Primers elementary education 372.4
Primeval man, natural hist. of man 573
prehis. archæology 571
Priming tides 525.63
Primitive apostolic church 281.2
Christianity 270.1
church 281
culture 571
man, customs of 571
Methodist church 287.4
Wesleyan " 287.5
Primogeniture, law 347.6
Primrose league, political associations 363
Primulaceæ botany 583.672
Primulales " 583.67
[1] Prince Edward Is., Canada, history 971.7
Princeton college 378.749
Principles, general probabilities 519.1
Printed catalogs lib. economy 025.3
Printers' lives 926.5
occupation hygiene 613.65
Printing 655
calico chemical tech. 667.3
inks " " 667.5
library admin. 025.1
presses 655.31
telegraphs, communication 654.3
trade 655
Prints, books of 769
cloth chemical technology 667.3
Prior, M. English poetry 821.51
Prisms geometry 513.36
Prison associations 365
contracts polit. economy 331.5
discipline 365
life Amer. civil war 973.77
Prisoners of war international law 341.3
Prisons 365
and reformatories arch. 725.6
hygiene 613.57
Private banks 332.13
grounds landscape garden. 712
international law 341.5
judgment ecclesiastical pol. 262.8
libraries 027.1
library catalogs author 018.2
classed 017.2
dictionary 019.2
notes political economy 332.5
ownership of land 333.3
Private reading self-education 374.1
schools 373
theatricals 793
ethics 175.2
vs. public schools 379.3
worship 248
Privateers 341.3
Privately printed books rarities 094
Privation, effects of diseases 616.985
hygiene 613.88
Privies air pollution 614.764
sanitation 628.41
Privileges, special, to library readers 024.7
to readers library admin. 025.1
Privy council Eng. government 354.4204
Prize fighting, ethics 175.6
Prizes in school education 371.53
international law 341.3
maritime " 347.7
Probabilities, mathematics 519
Probate law 347.6
Problem of three bodies, astronomy 521.13
Problems differential calculus 517.29
integral " 517.39
s see subject
Proboscidea mammals 599.6
Procedure law 347.9
Processes, anti-rust building 691.7
building materials 691
Processional cathedral music 783.29
Processions customs 394.5
Proclus Greek philosophers 186.4
Prodicus " " 183.1
Produce agriculture 633
Production of metals, political econ. 332.41
political economy 338
Productions of the soil agriculture 633
Profanity ethics 177.2
Professional ethics 174
schools architecture 727.4
services building 692.8
Professorships of books and reading 028.6
Profit sharing political economy 331.2
Prognostications 133.3
Program music, orchestral 785.4
Progress civilization 901
of population, statistics 312
sociology 301
Progression algebra 512.6
arithmetic 511.6
Progressive develop. of man evol. 575.6
friends sects 289.6
Prohibited books book rarities 098
Prohibition party political science 329.81
temperance 178.5
Projectiles, deviation of 525.37

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Projectiles military engineering 623.4
physics 531.55
Projection of shadows perspective 515.63
Projections analytical geometry 516.57
descriptive " 515
map geodesy 526.8
Prolapsus funis in labor 618.58
Prominences sun 523.75
Promise ethics 174.7
Promissory notes law 347.7
political economy 332.5
Promotion of public welfare 351.8
Promotions of scholars 371.28
teachers 371.16
[3] Pronominal forms Eng. etymology 422.7
[3] Pronouns " syntax 425.7
[3] Pronunciation " language 421.5
Proof, legal law 347.94
reading printing 655.25
Propagation of contagious diseases 614.43
light optics 535.2
magnetism 538.2
sound acoustics 534.2
Propellers ships 621.12
Proper motions stars 523.83
names persons and places 929.4
of season, cathed. music 783.23
Propertius Latin lyric poetry 874.4
Property capital 331
city local taxat. 352.1
law of title to 347.2
literary publishing 655.6
state finance 336.1
suffrage 324.1
tax 336.21
theory of, polit. econ. 335.01
Prophecy Bible inspiration 220.1
Prophetical books of Bible 224
Proportion, algebra 512.6
arithmetic 511.6
in art æsthetics 701
of elevation, arch. design 729.13
occupiable area, ground
hygiene 614.784
plan arch. design 729.23
Proprietary libraries 027.2
Proscription criminal law 343.2
[3] Prose composition Greek 488.2
[3] Latin 478.2
Pro-slavery slavery 326.7
Prosody comparative philol. 416
[3] English language 426
Greek " 486
Latin " 476
Prospecting mining engineering 622.1
Prostate gland, diseases 616.65
Prostitution administration 351.764
ethics 176.5
hygiene 613.87
Protagoras Greek philosophers 183.1
Proteaceæ botany 583.932
Protection of animals 591.57
human life from accidents 614.8
political economy 337.3
Protective external agents, therapeu. 615.776
inoculation, pub. health 614.47
Protectorate English history 942.064
Protestant Episcopal Church 283
Episcopalians' lives 922.3
Methodist church 287.7
sects, continental 284
Protestantism 284
and Romanism 282
Protestants, French, persecutions of 272.4
Protonotario, Stefano, Italian poetry 851.11
Protophyta botany 589.7
Protoplasm animal physiology 591.17
biology 576.2
physiology 612.71
Protozoa paleontology 563
zoölogy 593
[4] Provençal language 449
literature 849
Romanesque architecture 723.44
[1] Provence, France history 944.9
Proverbs, book of Bible 223.7
folk-lore 398.9
[1] Providence, R. I. history 974.52
travel 917.452
Providence, Divine theology 231.5
natural " 214
Province German local gov. 352.0431
[3] Provincialisms English lang. 427
Pruning agriculture 634
[1] Prussia history 943.1
[4] Prussian language, old 491.91
[1] Saxony, Germany, hist. 943.18
travels 914.318
Prussic acid materia medica 615.34
toxicology 615.962
Prytz, A. J. Swedish drama 839.7223
Psalmody music 783.9
Psalms Bible 223.2
Psalter Anglican ritual 264.038
Pseudo gospels 229.8
Pseudomorphs crystallography 548.6
Pseudoneuroptera articulates 595.73
Pseudonyms, bibliography 014
Psychic phenomena 134
Psychological medicine 131
Psychology 150

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Psychomancy divination 133.3
Psychrometry, meteorology 551.57
Pteridophyta botany 587
Pterodactyl paleontology 568.18
Pteropoda zoölogy 594.4
Pterosauria reptiles 598.18
Ptomaines animal poisons 615.94
Puberty physiology 612.661
Public accounts administration 351.72
administration 350
analysts adulterations 614.3
annuities 336.35
begging administration 351.763
buildings, architecture 725
local government 352.5
charities 361
charity administration 351.84
credit political economy 336.34
customs 394
debt finance 336.3
documents 328
preservation 025.8
education 379
administration 351.851
finance 336
gaming " 351.762
gardens 711
health 614
laws 614.09
local gov. 352.4
lands 336.1
law 340
libraries 027.4
administration 351.852
library author catalogs 018.1
notes political economy 332.5
occasions and duties, sermons 252.6
officers, duties of ethics 172.2
offices architecture 725.13
safety administration 351.75
sanitation 614
schools education 379
securities, polit. economy 336.3
shows ethics 175.1
speakers' occupation, hygiene 613.65
speaking, oratory 808.5
spirit patriotism 172.1
urinals sanitation 628.45
use and waste of water, " 628.17
vs. private schools 379.3
welfare administration 351.8
works " 352.5
worship 264
Publications, library 025.1
Publishers and authors 655.52
author catalogs 015
Publishers' circulars 015
lives 920.4
Publishing business 655.5
history of 655.4
societies 655.58
Pucci, Antonio Italian satire 857.14
[1] Puebla, Mexico history 972.4
Pueblos dwellings 571.85
Puerperal diseases obstetrics 618.7
fever pathology 618.72
public health 614.545
state obstetrics 618.6
Pugilism amusement 796
ethics 175.6
Puissant's deduc., L. M. Z. formulæ 526.48
Pujol Catalan poetry 849.9136
Pulci, Luigi Italian satire 857.22
Pulley physics 531.84
Pulmonary artery, aneurism and embolism 616.247
respiration, animals 591.127
Pulp, dental, diseases of dentistry 617.61
Pulpit clergy 262.1
eloquence homiletics 250
oratory 251
Pulpits architec. accessories 729.92
sacred furniture 247.1
Pulse, diagnosis pathology 616.071
wave of blood physiology 612.16
Pumice stone lithology 552.23
Pump, air 533.5
condensing pneumatics 533.83
force " 533.84
suction " 533.85
wells water works 628.12
Pumping engines mechan. eng. 621.64
stations sewerage works 628.29
vs. gravitation water works 628.12
Pumps engineering 621.64
Punching tools 621.96
[3] Punctuation English language 421.9
Punctured wounds surgery 617.144
Punic wars Roman history 937.04
Punishment, capital criminal law 343.2
corporal, school 371.55
eternal theology 237.7
future " 237.6
law 343.2
school 371.54
[1] Punjab, India history 954.5
Pupa embryology 591.34
Purchase of college degrees 378.26
Purgatives cathartics 615.7323
Purgatory theology 236.5
Purification of wastes sanitation 628.546

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Puritanism theology 285.9
Puritans English history 942.06
religious hist. 274.2
Mass. history **974.4**
persecutions by 272.8
Purpose intention ethics 171
Pus medicine 617.22
Puseyism theology 283
[4] **Pushtu language 491.58**
Pustular affections of skin 616.52
[1] Putnam Co., N. Y. history 974.732
Putrefaction
[1] Puy de Dôme, France history 944.59
Puzzles 793
Pyæmia diseases 616.943
Pygmies human 573.8
Pyramids Egyptian 913.32
geometry 513.35
Pyrenees mountains travels 914.6
[1] Pyrénées, Orientales, France hist. 944.89
Pyrenomycetes botany 589.235
Pyrites mineral 549.3
Pyrometry temperature 536.52
Pyrotechnics chemical tech. 662
Pyrrhonism Greek philosophy 186.1
Pythagorean philosophy 182.2
Pythias, knights of secret societies 366.2
Quackery delusions 133.7
medical, state cont. of 614.26
Quadrant astron. instrument 522.41
Quadrature integral calculus 517.33
of circle geom. 513.21
Quadric surfaces anal. geom. 516.42
modern " " 516.58
geometry 513.58
Quadrilateral, adjustment of, geodesy 526.52
Quadrilaterals, plane geometry 513.15
Quadrumana, zoölogy 599.8
Quadrupeds 599
Quadruplex telegraphs commun. 654.2
Quakers lives 922.8
persecutions 272.8
sects 289.6
Qualifications of readers lib. econ. 024.1
teachers, education 371.11
voters suffrage 324.1
Qualitative analysis chemistry 544
Quality metaphysics 111
Quantics algebra 512.87
Quantitative analysis chemistry 545
Quantities building 692.5
[3] Quantity English prosody 426.1
of blood physiology 612.116
clothing hygiene 613.482
metaphysics 119
Quarantine administration 352.4
Quarantine contagious disease 614.46
laws, local admin. 352.4
Quarries, prehistoric 571.21
Quarrying mining engineering 622.22
Quarrymen's occupation hygiene 613.66
Quartermasters military admin. 355
Quarters, servants' architecture 728.92
Quartet sacred music 783.8
Quartets vocal music 784.84
Quartz lithology 552.45
mineralogy 549.5
Quartzite lithology 552.45
Quaternary age geology 551.79
Quaternions mathematics 516.8
Quays harbor engineering 627.3
[1] Quebec, Canada history 971.4
travels 917.14
Queen Anne architecture 724.5
[1] Queen's Co., Ireland history 941.87
[1] Queens Co., New York, " 974.724
Queens, lives of 923.1
[1] Queensland " 994.3
[1] Querétaro, Mexico " 972.4
Quesnes de Bethune French poetry 841.15
Questions see subject
Quevedo Villegas, F. G. de, Sp. sat. 867.3
Quietism heresies 273.7
Quietists, persecution of 272.5
"Quincy system," education 371.47
Quinet, Edgar, French essays 844.81
Quinine therapeutics 615.75
Quinones organic chemistry 547.6
Quinsy diseases 616.31
Quintana, M. J. Spanish poetry 861.51
Quintilian Latin oratory 875.6
Quoits amusements 796
[5] **Quotations English literature 828**
general collections 808.8
Rabbinic learning Judaism 296
Rabbits domestic animals 636.9
Rabelais, François French satire 847.32
Rabener, G. W: German " 837.61
Racan, H. de B., French poetry 841.43
Race horse amusements 798
influence on mind 136.4
mortality public health 614.144
suffrage 324.1
Races of man 572
Rachel, Joachim German satire 837.52
Racine, Jean French drama 842.45
Louis " poetry 841.52
Racing amusements 798
ethics 175.7
Radiant energy of sun 523.72
matter 539.1
points meteors 523.53

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Radiates **paleontology** **563.2**
zoölogy **593.2**
Radiation heat 536.33
Radical axes modern geometry 513.54
Radiolaria zoölogy 593.14
Radius vector astronomy 521.38
[1] Radnor, Wales history 942.96
Ragged schools 377.7
Rags, control of contagious diseases 614.463
disinfection " " 614.48
Rahbek, K. L., Danish poetry 839.8157
Railroad accidents transportation 656
corporations 385
engineering **625**
elevated 625.4
freight houses arch. 725.32
government, administration 351.812
horse mechanical eng. 625.6
law 385
locomotives 621.13
officials' lives **923.8**
passenger stations, arch. **725.31**
reports, state 385
shops " 725.33
transportation business 656
" sociology 385
travel protect. of life 614.863
Railroading 656
Rails railroad engineering 625.1
Railway guides 656
Rainfall meteorology 551.57
Rainless regions meteorology 551.58
Raising funds for libraries 021.9
[1] Rajputana, India history 954.4
Ram, water hydraulics 532.83
Ramsay, A. English poetry 821.54
Ranales **botany** **583.11**
Randolph, John Am. oratory 815.24
Rank heraldry 929.7
Ranunculaceæ botany 583.111
Rapateaceæ " 584.39
Rape law 343
Rapidity of flow of blood, physiology 612.15
Rapisardi, Mario Italian poetry 851.86
Raptores birds 598.9
Rare binding book rarities 095
illustrations " 096
printing " 094
Rarissima " **090**
Rasores birds 598.6
Rat noxious animal 591.68
zoölogy 599.3
Rationalism natural theology 211
Rationalistic age religious history 270.8
Rationalists, apologetics against 239.7
Rattlesnake zoölogy 598.12
Rauch, H. J. Danish drama 839.8231
Raw materials, duties on 337.6
Read, Thos. Buchanan, Am. poetry 811.35
Readers' aids **028**
[3] elementary, Eng. language 428.6
librarian's relations to 025.1
qualifications lib. econ. 024.1
Reading and aids **028**
art of 808.5
[5] **books, higher, Eng.** **828**
clubs self-education 374.2
courses 028.3
elementary education 372.4
for the young 028.5
private self-education 374.1
proofs printing 655.25
rooms, for laboring classes 331.85
free, library econ. **027.9**
library economy 022.5
Readings, halls for architecture 725.83
Ready-reckoners 658
Reagents **chem. anal.** **543**
Real estate law 347.2
taxation polit. econ. 336.22
presence, theology 265.3
Realism philosophy 149.2
Realty law 347.2
Reason in animals zoölogy 591.51
intuitive faculty 156
natural theology **210**
Reasoning faculty 153.6
Rebellion of 1717 and 1745, Irish hist. 941.57
political science 323
Southern U. S. " **973.7**
Reboul, Jean French poetry 841.75
Receipts **medicine** **615**
useful arts 602
workshop, chem. tech. **660**
on special subj. see subj.
Receiving vaults architecture 726.8
Recent period, geology 551.791
Recesses in schools 371.24
Recessional cathedral service 783.29
Recipe books, cookery 641
Reciprocal polars, analytical geom. 516.55
modern " 513.55
Reciprocity free trade 337.9
Recitation rooms architecture 727.1
Recitations education 371.32
Recitative music 784.2
Recognition hereafter doct. theol. 237
Reconnaissance geodesy 526.31
Reconstruction U. S. history 973.8
Record offices, architecture 725.15
Recreation **buildings arch.** **725.8**
hygiene **613.7**

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Recreations school hygiene 371.74
Recreative arts **790**
Recruiting military science 355
Rectangular coördinates spher. astr. 522.72
Rectilinear motion dynamics 531.31
Rectum, administration of med., ther. 615.62
anatomy 611.35
diseases 616.35
Red Cross societies 361
globules of blood physiology 612.111
[1] river settlement, Canada, hist. 971.27
travels 917.127
sea physical geography 551.467
Redemption theology 234.3
Redemptorists monastic orders 271.6
Reduction of results geodesy 526.75
[3] Reduplication English etymology 422.3
Reed wind instruments 788.9
Reenberg, Töger Danish poetry 839.8142
Reference books library admin. 025.5
use of aids 028.7
department lib. econ. 025.5
use of libraries 024.5
Refiners' occupation hygiene 613.62
Reflecting circle, astron. instruments 522.41
instruments optics 535.87
telescopes astron. instr. 522.21
Reflection heat 536.31
light 535.3
mental faculties 153.4
Reflections perspective 515.64
Reflex action zoölogy 591.18
Reform bill, 1832 English suffrage 324.42
civil service 351.6
schools 364
architecture 725.64
education 371.97
sociology 301
Reformation, age of European hist. 940.7
German history 943.03
religious history 270.6
Scandinavian history 948.04
Switzerland, sec. hist. 949.403
Reformatories **architecture** **725.6**
hygiene 613.57
temperance 178.6
Reformatory associations 364
Reformed church, Dutch 284.1
in Amer. 285.7
Episcopal church 283
Presbyterian " 285.5
Reformers' lives **923.6**
Refraction heat 536.32
optics 535.3
practical astronomy 522.92
Refracting telescopes 522.22
Refreshment buildings arch. **725.7**
Regaldi, Guiseppe Italian poetry 851.77
Regencies Eng. administration 354.4203
const. hist. 342.429
Regeneration, theology 234.4
[1] Reggio di Calabria, Italy history 945.79
travels 914.579
Regicides' lives 923.4
Regimen **hygiene** **613**
Regimental histories, U. S. civil war 973.744-9
Regiments, history of 353.9
Regional anatomy **611.9**
surgery **617.5**
Registers, family 929.3
of births, etc., public 312
deeds law 347.2
U. S. army officers 355
Registration of conveyances law 347.2
public health 614.1
statistics 311
Regnard, J. F. French satire 847.47
Regnier, Mathurin " " 847.35
Regulation of animal heat phys. 612.53
med. prac., pub. health 614.25
Regulations, army 355
navy 359
readers **library econ.** **024**
Regulators, sewerage 628.258
Reid, Thomas, British philosophers 192.5
intuitionalism 143
Reign of terror, 1793–4, French hist. 944.044
Reinaert Dutch satire 839.371
"Reineke Vos" German satire 837.31
Relapsing fever diseases 616.924
Relations, domestic, political science 323
foreign " " 327
of capital and labor 331.1
church and state, ethics 172.3
Relationship 929.1
Relative location library economy 025.8
Relics miracles 231.7
Relief, decoration in architecture **729.5**
work building 698.8
Religion **200**
and education **377**
science apologetics 239.8
nat. theol. 215
Christian **200**
natural **210**
practical **240**
Religions, Non-Christian **290**
Religious anecdotes 244
architecture **726**
art **246**
associations **206**
biography **922**

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Religious ceremonies history
sacraments 265
controversy 270
on special subjects see subject
education 377
of clergy 207
festivals 264
fiction 244
history 270
institutions 260
liberty 261.7
orders, monastic 271
painting art 755
ecclesiology 247.5
poetry 245
societies 206
of special sects 280
on special subject see subject
symbolism 246
Remains, paleontology 560
Remedies, legal 347.95
pathology 616
therapeutics 615.5
Remittent fever public health 614.532
Remonstrants, sects 284.9
Renaissance architecture 724.1
European history 940.6
fine arts 709
religious " 270.5
Renal diseases 616.61
Renan, Joseph Ernest Fr. essays 844.82
"Renard the fox" German satire 837.31
Rendering works air pollution 614.742
[1]Renfrew, Scotland history 941.41
[1]Rensselaer Co., N. Y. " 974.741
Rent of state property finance 336.11
political economy 333
Repair of waste physiological zoöl. 591.136
physiology 612.395
Repentance doctrine 234.5
Repetitions, method of geodesy 526.56
Reporting journalism 070
shorthand 653
Reports, law, American 345.4
British 346.4
library administration 025.1
see subject
Repoussé work fine arts 739
roofs 721.56
Representative gov. polit. sci. 321.8
Reprisal international law 341.3
Reproduction, botany 581.16
embryology 581.3
physiology 612.6
zoölogy 591.16
embryology 591.3
Reproductive power, mental faculties 154
Reptiles paleontology 568.1
zoölogy 598.1
Republic, 1st French history 944.042
2d " " 944.07
3d " " 944.08
political science 321.8
Roman history 937.02
Spanish " 946.08
Republican institutions 321.8
party, U. S. 329.6
Republicans U. S. history 973.4
" " 973.7
Republics, Italian history 945.04
polit. science 321.5
Repudiation finance 336.36
Repulsive force descr. astronomy 523.17
Reredos fixed furniture 729.96
sacred " 247.2
Rescue from drowning, protec. of life 614.811
of shipwrecked " " " 614.868
Resection surgery 617.94
Resedaceæ botany 583.133
Resen, Peder Danish miscellany 839.883
Reservoirs sewerage 628.28
water works 628.13
Residences architecture 728
official, arch. 725.17
Residual calculus 517
Resins chemical technology 668.4
fossil, economic geol. 553.29
Resistance of materials, engineering 620.1
molec. phys. 539.4
water hydraulics 532.58
Resisting medium descr. astron. 523.15
theoret. " 521.44
Resonators acoustics 534.4
Resorts, health hygiene 613.12
human " 613.5
mountain " 613.12
sea-side " 613.12
summer architecture 728.52
Respiration animals 591.12
physiology 612.2
Respiratory movements physiology 612.21
organs, comp. anat. 591.42
descriptive anat. 591.72
system, anatomy 611.2
diseases of 616.2
drugs act. on 615.72
surg. opera. 617.42
Responsibility, human doct. theol. 233.4
ethics 171
Responsive choral service 783.24
readings, public worship 264.4
Rest and sleep, hygiene 613.79

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Restaurants architecture 725.71
Restiaceæ botany 584.83
Restif da la Bretonne N. E., Fr. fiction 843.57
Restoration English history 942.066
French " 944.06
of the Jews 296
Restriction of contagious diseases 614.44
Resumption U. S. finance 336.73
Resurrection Christology 232.5
doctrinal theology 236.8
Resuscitation of the drowned, protect.
of life 614.812
Retail stores architecture 725.21
Retina eye diseases 617.73
Retreats, religious 269
Retribution doctrinal theology 237.6
Retro-vaccination contagious dis. 614.4737
Reuchlin medieval philosopher 189.5
Reunion public order 351.752
Reuss, Germany history 943.28
Re-vaccination contagious diseases 614.4734
Re-vaccinisation " " 614.4736
Revelation, Book of Bible 228
Divine 231.6
Revenue state finance 336
Reversionary payments finance 336.35
insurance 368.31
[2] Reviews see subject reviewed
Revised statutes American law 345.2
[1] **Revival, Gothic architecture 724.3**
[1] **Grecian " 724.2**
of letters, literary history 809
[1] **Romanesque arch. 724.8**
Revivals music 783.7
of religion 269
Revolution, American history 973.3
English, 1688 " 942.068
French, 1789 " 944.04
" 1830 " 944.063
" 1848 " 944.07
of the earth astronomy 525.35
Revolutions political science 323
Rewards and punishments theology 233.4
school 371.53
'Reynard the fox" German satire 837.31
'Rhætia ancient history 939.84
[4] **Rhaeto-Romansch language 459**
Rhamneæ botany 583.275
[1] Rhenish Bavaria, Germany, history 943.43
[1] Prussia " " 943.42
Rhetoric 808
sacred homiletics 251
Rheumatic fever diseases 616.991
Rheumatism " 616.991
Rhine travels 914.34
Rhinoceros zoölogy 599.7
Rhinoplastic operations surgery 617.95
Rhizophoreæ botany 583.411
Rhizopoda zoölogy 593.11
[1] **Rhode Island, U. S. history 974.5**
Rhodes ancient " 939.16
[1] modern " 949.96
Rhodium inorganic chemistry 546.97
Rhododendron botany 583.62
[1] Rhône, France history 944.58
[3] Rhymes English prosody 426.6
Rhynchota insects 595.75
Rhyolite lithology 552.25
Richard I. English history 942.032
II. " " 942.038
III. " " 942.046
of Cornwall, Ger. history 943.025
Richardson, S: English fiction 823.61
[1] Richmond Co., N. Y. history 974.726
Richter, J. P. F. German fiction 833.62
Rickets diseases 616.996
Riddles amusement 793
popular life 398.6
Riding 798
halls and schools, architecture 725.88
Rifle manufacture 683
military science 355
shooting amusement 799
Rifled ordnance, military engineering 623.4
Right ascension, variations of astron. 521.27
lines analytical geometry 516.11
loci in space " 516.31
plane geometry 513.11
of search 341
standard of ethics 171
Righteousness, personal religion 248
Rights and liberties, const. law 342
land political economy 333
political science 323
Rigor of muscles physiology 612.742
Rinderpest veterinary medicine 619.2
Rings, finger costume 391.7
sacred ornaments 247.6
Ringwaldt, B. German poetry 831.45
Rinks bicycle, architecture 725.86
ethics 175.1
skating " 725.86
Rinuccini, Ottavio Italian drama 852.52
[1] Rio Janeiro history 981
travels 918.1
Rioja, Francisco de Span. poetry 861.38
Rios, J. A. de los " misc. 868.52
Riots administration 351.752
law 343
in any locality see name of place
Ripple-marks, geology 551.83
Ritchie, A. C. (M.) Amer. drama 812.31

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Rites and ceremonies customs 394.4
Ritual public worship 264
Ritualism 264
Rivadeneyra, Pedro de Span. misc. 868.35
River crossing, sewerage works 628.26
engineering 627
transportation sociology 387
Rivers engineering 627.1
hydraulics 532.54
physical geography 551.48
pollution sanit. eng. 628.541
water supply 628.11
Riveted joints, plumbing 696.4
Riveting tools, mechanical eng. 621.97
Rivets machine tools 621.99
plumbing 696.4
Roadbed railroad engineering 625.1
Roads and pavements engineering 625.7
cable " 625.5
elevated " 625.4
engineering 625.7
military military eng. 623.6
Robbery criminal law 343
Robert II., French history 944.021
of Gloucester, English poetry 821.13
Robin Hood English ballads 821.04
legends 398.2
"Robinsonaden" German fiction 833.54
Rocaberti, Fra Catalan poetry 849.912
[1] Rochester, N. Y. history 974.789
Rock analysis chemistry 543.6
blasting engineering 622.23
minerals determination 552.81
salt economic geology 553.63
structure lithology 552.82
[1] Rockland Co., N. Y. history 974.728
Rocks, cleavage of geology 551.84
conductivity of, " 551.14
lithology 552
polarity in geology 551.84
Rocky mountains, U. S., history 978
Rodentia zoölogy 599.3
Rodolph I. German history 943.026
II. " " 943.034
Rodriguez Rubí, Tomas Sp. drama 862.52
Roig, Jacme Catalan poetry 849.9133
Rojas y Zorrilla, F. de Span. drama 862.36
Rollenhagen, G;, German poetry 831.46
Rolling friction, mechanics 531.45
Rolls of honor military 355
schools 371.53
[4] Romaic language 489
literature 889
Roman architecture 722.7
art 709.37
baths hygiene 613.46
Roman Catholic church 282
Catholics' lives, biography 922.2
dominion in Spain, history 946.01
empire " 937.06
history, ancient 937
[1] modern 945.6
inquisition, persecutions 272.2
law 349.37
literature 870
mythology 292
orders monastic orders 271
of architecture 729.32
republic history 937.02
sculpture 733
supremacy religious history 270.4
Roman de la Rose French poetry 841.18
du Renard " satire 847.12
[5] **Romance, English 823**
languages 479
religious 244
Romances, Los Spanish poetry 861.26
Romanesque architecture 723.4
revival, architecture 724.8
Romanism 282
Romanos, R. M. de Spanish fiction 863.52
Romans epistle bible 227.1
Romans d'Aventures, Provençal poet. 849.123
Romantic orchestral music 785.3
piano music 786.43
vocal " 784.3
Rome, ancient history 937
church of 282
missions 266.2
theology, doctrines 230.2
city, ancient 937.6
[1] modern 945.6
travels 914.56
Römer, Ole Danish miscellany 839.883
Romish church 282
Rommany Gipsies 397
Rondo piano music 786.41
Ronsard, Pierre de French poetry 841.34
Rood screen fixed furniture 729.96
sacred " 247.2
Roof construction architecture 721.5
coverings building 695
Roofs architectural design 729.35
engineering 624.9
Rope making 677
Rosa, Salvatore Italian satire 857.55
Rosaceæ botany 583.37
Rosales " 583.3
[1] Roscommon, Ireland history 941.75
Rose botany 583.37
culture 716.2
Rosenkranz, Holger Danish miscel. 839.883

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Roses, wars of, English history 942.04
Rosetta stone, Egyptian inscriptions 493.117
Greek " 481.7
Rosicrucians secret soc. 366.4
Rosini, Giovanni Italian fiction 853.71
[1] Ross, Scotland history 941.16
Rossetti, D. G. English poetry 821.84
Gabriello, Italian " 851.72
Rota, Bernardino " " 851.42
Rotary blowers, engineering 621.62
pumps " 621.66
Rotation of earth 525.35
heavenly bodies 521.15
sun 523.73
physics 531.34
Rote teaching education 371.31
Rotgans, Lucas Dutch poetry 839.3141
Rötheln public health 614.524
[1] Rotterdam history 949.2
travels 914.92
Roucher, J. A., French poetry 841.55
[1] Rouen history 944.25
travels 914.425
Roulettes curves, anal. geom. 516.26
[1] Roumania, Turkey history 949.8
[4] **Roumanian language** 459.9
Roumanille, Joseph, Provençal poet. 849.144
Round dances, amusements 793
ethics 175.3
houses, R. R., architecture 725.33
table Arthurian romances 398.2
vocal music 784.1
worms, parasitic diseases 616.965
Roundheads English history 942.062
Rousseau, J. B. French poetry 841.51
J. J. " fiction 843.56
" philosophers 194.4
Route canal engineering 626.1
railroad " 625.1
Rovere, Antonius de Dutch poetry 839.3121
Rowe, N. English drama 822.55
Rowing sport 797
Rowson, Susanna, American fiction 813.22
[1] Roxburgh, Scotland history 941.47
Roxburghiaceæ botany 584.31
Royal houses, heraldry 929.7
lives biography 923.1
Rubber manufactures 678
Rubble stone foundations 721.12
Rubefacients external irritants 615.773
Rubeola diseases 616.916
Rubiaceæ botany 583.52
Rubiales " 583.51
Rubidium inorganic chemistry 546.35
Rubrics Anglican ritual 264.032
Rucellai, Giovanni Italian poetry 851.33
Rückert, F. German poetry 831.74
Rudbeck, Olof, Swedish miscellany 839.7831
Rugosa zoölogy 593.61
Ruins antiquities 913
Ruiz, Juan Spanish satire 867.1
Rulers' lives 923.1
palaces of architecture 725.17
Rules for readers library econ. 024
staff " " 023.9
of order, parliamentary 328.1
school 371.51
Rum chemical technology 663.5
[1] Rumania history 949.8
travels 914.98
[4] **Rumansh language** 459.9
literature 859.9
Ruminants zoölogy 599.7
Runeberg, J. L. Swedish poetry 839.7167
Runes 439.6
Anglo-Saxon 429.17
German 437.01
Gothic 439.917
Runic inscriptions 439.617
Runius, Johan, Swedish poetry 839.7136
Rupert German history 943.027
Rupture of genital tract obstetrics 618.55
Rural architecture 728
cemeteries 719
economy agriculture 630
life " 630
sports 796
water supply 628.7
Rush, Benjamin American essays 814.21
Ruskin, J. English essays 824.86
Russia **administration** 354.47
botany 581.947
finance 336.47
geology 554.7
[1] **history** 947
[1] in Asia history 957
maps 912.47
schools 379.47
statistics 314.7
travel 914.7
treaties 341.247
other topics see table 1
[1] Russian America, Alaska history 979.8
architecture 723.2
baths architecture 725.73
hygiene 613.46
church sects 281.9
[4] **language** 491.7
literature 891.7
music 781.7
Rust, anti-, processes, build. materials 691.7
fungi 589.225

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Rust joints plumbing 696.6
Rutaceæ botany 583.23
Rutebeuf French poetry 841.17
Ruth Bible 222.3
[4] Ruthenian language 491.79
Ruthenium inorganic chemistry 546.96
[1] Rutland, England history 942.54
Rydberg, Viktor Swedish fiction 839.7367
Rydelius, Anders " misc. 839.7834
Ryswick, Peace of treaties 341.24
Saavedra, Fajardo, D. de Sp. misc. 868.36
Sabbatarians Christian sect 289.9
Sabbath 263
schools 268
Sabeism philosophy 181.7
Sabellian heresies 273.3
Sabiaceæ botany 583.291
Sabini ancient history 937.4
Saccharomycetes botany 589.91
Sacchetti, Franco Italian fiction 853.21
Sachs, Hans German poetry 831.44
Sacramentals public worship 264.9
Sacraments 265
Anglican ritual 264.035
Sacred art 246
biography 922
drama miracle plays 792
religion 244
furniture 247
history 270
music 783
poetry 245
rhetoric 251
Sacrifice birth customs 392.2
Christology 232.4
Sacrifices Bible 220.93
sacraments 265.3
Sacrilege 265.9
Saddlery trade 685
Safe deposit buildings architecture 725.24
storage " 725.35
Safes manufactures 672
Safety lamps, mining engineering 622.47
Sagas, Norse 839.6
Sago chemical technology 664.2
Sahara desert history 966.1
physical geography 551.58
Sail-making trade 689
Sailing directions 656
great circle navigation 527.5
Sailors' lives 926.56
Saint Albans raid U. S. history 973.7**22**
Vermont hist. 974.3
Amant, M. A. G., Fr. satire 847.42
Bartholomew's day, persecution 272.4
Bernard, hospice of, prot. of life 614.87
Saint Évremond, French essays 844.42
[1] Helena history 997
[1] Lawrence Co., N. Y. " 974.756
[1] Louis, Mo. " 977.8
travels 917.78
Marc Girardin Fr. essays 844.75
[1] Petersburg, Russia, history 947.4
travels 914.74
Pierre, J. H. B. de Fr. fiction 843.61
Simonism socialism 335.2
Vitus's dance diseases 616.851
Sainte Beuve, C. A. French essays 844.74
Saints doctrine 235
lives of 922
Salamanders batrachia 597.9
Salaries lib. administration 025.1
Salary of teachers 371.16
Sale catalogs of books 017–019
of duplicates library economy 025.2
state properties finance 336.12
Salernitano, Masuccio Italian fict. 853.31
[1] Salerno, Italy history 945.74
Salesmen's occupation hygiene 613.65
Salic laws German law 349.432
Salicineæ botany 583.981
Salicylates therapeutics 615.75
Salicylic acid organic chem. 547.76
disinfectants, contag. dis. 614.486
Saline waters economic geology 553.72
Salines cathartics 615.7322
Saliva therapeutics 615.741
Salivary glands anatomy 611.31
physiology 612.31
secretion physiol. zoölogy 591.143
Sallust Latin literature 878.2
Salmon fishing, amusement 799
business 639
"Salomon and Morolf" Ger. satire 837.22
Saloons architecture 725.72
billiard architecture 725.84
[1] Salop, England history 942.45
Salt baths hygiene 613.45
foods " 613.28
lithology 552.53
manufacture 664.4
mining 622.36
rock economic geology 553.63
Saltpetre mineralogy 549.72
Salts, chemical technology 661.4
of ammonia chemical tech. 661.5
theoretical chemistry 541.4
Saluste du Bartas, G. de Fr. poetry 841.37
Salvadoraceæ, botany 583.716
Salvage maritime law 347.7
Salvation doctrinal theology 234
Salviati, Leonardo Italian essays 854.45

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

[1] Salzburg, Germany history 943.63
Samaniego, F. M. de, Spanish poetry 861.44
[4] **Samaritan language** 492.5
Samnite wars Roman history 937.03
Samnium ancient " 937.7
Samos " " 939.14
[1] modern " 949.94
Samsöe, O. J. Danish drama 839.8253
Samuel Old Testament 222.4
Samydaceæ botany 583.451
[1] San Francisco history 979.4
travels 917.94
[1] San Luis Potosi, Mexico history 972.4
[1] San Salvador history 972.84
Sancho IV. Spanish miscellany 868.12
Sanctification doctrinal theology 234.8
Sanctis, Francesco de talian essays 854.81
Sanctuary legal antiquities 340.3
Sanctus sacred music 783.22
Sand, G: French fiction 843.82
Sand foundations 721.14
piles 721.16
storms 551.51
Sandals costumes 391.4
Sandbugs zoölogy 595.36
Sandemanianism sects 289.9
Sander, K. L., Danish drama 839.8256
Sands economic geology 553.62
Sandstone " " 553.53
lithology 552.51
old red 551.74
[1] Sandwich Islands history 996.9
Sandys, George American poetry 811.11
Sangrea legends 398.2
Sanguification, physiology 612.119
Sanhedrim Judaism 296
Sanitariums health resorts 613.12
Sanitary affairs public health 614
appliances hygiene 613.08
public health 614.08
commission, Am. civil war 973.7771
commissions local govt. 352.4
U. S. 361
districts Eng. local gov. 352.0425
engineering 628
laws public health 614.09
measures " " 614.09
police administration 351.77
reports public health 614.09
science engineering 628
surveys public health 614.77
Sanitation, industrial, engineering 628.5
of towns " 628.4
principles of " 628
public 614
veterinary, pub. health 614.9
Sannazzaro, Jacopo Italian poetry 851.26
[4] **Sanskrit language** 491.2
literature 891.2
Santalaceæ botany 583.943
[1] Santiago history 983
travels 918.3
[1] Santo Domingo history 972.93
[1] Saône et Loire, France history 944.43
Sap, circulation of botany 581.11
Sapindaceæ " 583.281
Sapindales " 583.28
Sapotaceæ " 583.681
Sappho Greek poetry 884.2
Saprolegnieæ, botany 589.26
Saracen empire history 953
Saracenic architecture 723.3
[1] Saratoga Co., N. Y. history 974.748
Sardinia ancient " 937.9
[1] island modern " 945.9
Sardou, Victorien French drama 842.86
Sarmatia, Asiatica, ancient history 939.52
Europa " " 939.81
Sarpi, Paolo Italian essays 854.51
Sarraceniaceæ, botany 583.121
[1] Sarthe, France history 944.17
Sash arch. construction 721.83
[1] Saskatchewan, Canada history 971.24
Sassanian architecture 722.5
Sassanians ancient history 935.7
Satan doctrinal theology 235
Satellites, action of astronomy 521.42
theoretical " 521.6
[5] Satire English literature 827
Satirical music, dramatic 782.6
Satirists' lives, Eng. 928.27
Saturn astronomy 523.46
Satyre Ménippée, La French satire 847.33
Saurians 598.1
Sauropterygia, reptiles 598.16
Savages
[1] Savanna, Ga., history 975.8
travels 917.58
Savings banks, administration 351.825
architecture 725.24
political econ. 332.2
[1] Savoy, declaration doct. theology 238.5
France history 944.48
house of "
Saw mills 674
Saws tools 621.93
Saxe, J. G. Am. satire 817.35
[1] Saxe-Altenburg, Germany history 943.24
[1] Gotha-Coburg " " 943.25
[1] Meiningen " " 943.26
[1] Weimar " " 943.23
Saxhorn wind instrument 788.42

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Saxifrageæ botany 583.38
Saxo Grammaticus Danish miscel. 839.8811
[4] **Saxon, Anglo-, language 429**
literature 829
[4] **old language 439.2**
literature 839.2
Romanesque architecture 723.42
[1] Saxony history 943.21
house of, Germany, hist. 943.022
[1] Prussian " " 943.18
Saxophone wind instrument 788.43
Saybrook platform creeds 238.5
Scagliola masonry 693.64
Scalds surgery 617.11
Scales, measuring instruments 530.8
music 781.2
practical chemistry 542.3
watch and instrument making 681
weights and measures 389
Scalping war customs 399
Scaly affections of skin 616.51
Scandal ethics 177.2
[1] **Scandinavia history 948**
[4] **Scandinavian language 439.5**
literature 839.5
philosophers 198
lives 921.8
protestants 284.7
Scandium inorganic chemistry 546.69
Scansores birds 598.7
Scaphopoda zoölogy 594.2
Scarlatina diseases 616.917
Scarlet fever pathology 616.917
public health 614.522
Scarron, Paul French satire 847.43
Scavenging of towns 628.4
Scepticism heresies 273.8
natural theology 211
philosophical systems 149.7
philosophy 186.1
Sceptics' lives, biography 922.9
Scheele, K. V., Swedish miscellany 839.7848
Schefer, L. German poetry 831.81
Scheffel, J. V. von " fiction 833.83
Schelling " philosophy 193.4
[1] Schenectady, N. Y. history 974.744
Scherzo orchestral music 785.1
Schiller, J. C. F., German drama 832.63
Schimmel, H. J. Dutch " 839.3253
Schism Avignon 270.5
Eastern and Western church 270.3
in the church eccles. polity 262.8
Schists lithology 552.43
Schizomycetes botany 589.95
Schleiermacher, German philosophy 193.6
[1] Schleswig-Holstein, Germ. history 943.51
[1] Schoharie Co., N. Y. history 974.745
Scholar's life, self-culture 374
Scholastic philosophers' lives 921.9
philosophy 189.4
Schöning, Gerhard Danish misc. 839.8844
School architecture 727
districts Eng. local gov. 352.0426
funds state education 379.11
furniture 371.6
hygiene 371.7
libraries education 371.64
library economy 027.8
[3] **texts English language 428**
Schools and libraries, library econ. 021.3
architecture 727
education 370
hygiene 613.54
library library econ. 020.7
music mus. education 780.7
of painting 759
parochial education 377.5
parish work 257
public 379
reform 364
architecture 725.64
riding " 725.88
Sunday 268
[2] see special subject
Schopenhauer, German philosophy 193.7
[1] Schuyler Co., N. Y. history 974.781
[1] Schwartzburg, Germany, " 943.27
Sciatica diseases 616.87
Science and religion apologetics 239.8
natural theol. 215
biography of 925
elementary education 372.3
mental 150
military 355
moral 170
natural 500
naval 359
of religion 201
social sociology 300
study teaching 507
Sciences, classification of 501
natural 500
occult 133
Scientific buildings architecture 727
men lives of 925
surveys, general 508.3
travels 508.3
Scientists, apologetics against 239.8
[1] Scilly Islands history 942.37
travels 914.237
Sciopticon optics 535.86
Scitamineæ botany 584.21

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Sclerotic eye diseases 617.71
Scope and usefulness of libraries 021
Scoria volcanic rocks 552.21
Scorpions zoölogy 595.4
Scotch churches, Presbyterian 285
covenant creeds 238.5
Deists apologetics 239.5
English dialects 427.9
language 491.63
music, vocal 784.4
philosophers' lives 921.2
philosophy 192
Presbyterians' lives 922.541
Romanesque architecture 723.41
Scotland administration 354.41
antiquities 913.41
architecture 720.941
botany 581.941
colleges 378.41
constitutional law 342.41
education 370.941
finance 336.41
geology 554.1
history 941
laws 349.41
maps 912.41
religious history 274.1
schools, public 379.41
statistics 314.1
travel 914.1
treaties 341.241
zoölogy 591.941
Scott, W. English fiction 823.73
poetry 821.74
[1] **Scottish border history 941.4**
travels 914.14
Episcopal church 283.41
poetry 821
Scotus, Duns medieval philosophy 189.4
Scrap book methods 029.3
books general collections 040
for special see subject
Screen doors arch. construction 721.83
Screening mining engineering 622.74
Screens arch. construction 721.87
fixed furniture 729.96
Screw cutting 621.99
joints plumbing 696.5
physics 531.87
propellers engineering 621.12
Scribe, A. E. French drama 842.73
Script writing 652
Scriptural biography Bible 220.92
Scripture chronologies 220.94
commentaries 220.7
concordances 220.2
Scripture dictionaries 220.3
harmonies of gospels 226.1
histories 220.95
readings public worship 264.3
Scriptures, holy Bible 220
Scrofula diseases 616.996
Scroll-sawing 749
Scrophularineæ botany 583.81
Scrotum anatomy 611.63
diseases of 616.67
Scudéry, Georges de French fiction 843.44
Madeleine de " " 843.45
Sculptors' lives 927.3
Sculpture 730
prehistoric 571.73
sacred ornamentation 247.3
Scurvy diseases 616.39
Scutage feudalism 321.3
Scythia ancient history 939.51
Scythian language 494
Sea anemones zoölogy 593.6
aqueous erosion 551.35
baths hygiene 613.45
cucumbers, zoölogy 593.96
fishery trade 639
grapes zoölogy 594.9
laws 347.7
lilies " 593.91
mats " 594.7
mosses algæ 589.3
serpent delusions 133.7
shore resorts, hygiene 613.12
urchins zoölogy 593.95
weeds botany 589.3
Seal engraving 736
Seals heraldry 929.8
zoölogy 599.7
Seamanship 656
Seamen's lives 926.56
Search, right of international law 341.3
Seaside cottages architecture 728.7
Seasons astronomy 525.5
hygiene 613.13
zoölogy 591.54
Seasickness 616.33
Seats, country architecture 728.8
Sebaceous glands, disorders of 616.53
secretion **animals 591.141**
[1] Sebastopol history 947.7
Secession church of Scotland 285.6
law 342
U. S. history 973.7
Second advent of Christ 232.6
adventists **sects 289.3**
empire **French history 944.07**
sight 133.3

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Second war with England, U. S. hist. 973.52
Secondary batteries electricity 537.84
schools, public 379.17
Secret service Amer. civil war 973.785
societies **366**
buildings arch. 728.4
college 371.85
writing cryptography 651
Secretion **animals** **591.14**
of liver physiology 612.35
physiology **612.4**
vicarious " 612.49
Secretory organs animals 591.44
descriptive anat. 591.74
Sects, Christian **280**
Secular changes of season 525.53
education **377**
Sédaine, M. J., French drama 842.57
Sedentary life, hygiene 613.65
Sedimentary rocks lithology **552.5**
Sedition law 343
See eccles. polity 262.3
Segregation geological agents 551.98
Segura de Astorga, J. L. Sp. poetry 861.14
[1] Seine et Marne, France history 944.37
[1] Oise, " " 944.36
[1] Inférieure, " " 944.25
Seismology **551.2**
Selagineæ botany 583.876
Selection, natural evolution 575.4
of manuscripts publish. 655.51
sexual evolution 575.5
[3] Selections English philology 428.7
Selenides mineralogy 549.3
Selenium inorganic chemistry 546.23
Self culture **374**
defence, art of athletics 796
education **374**
government polit. science 321.8
school discip. 371.59
[1] Selkirk, Scotland history 941.46
Sem Tob, Rabbí Spanish poetry 861.16
Sematology philology 419.1
Semi-detached city houses arch. **728.34**
diameter of celestial bodies 522.93
Seminaries architecture 727.2
education **373**
theological religion 207
Seminary method of instruction 371.37
Seminole wars U. S. history 973.5
Semitic languages **492**
Senancour, É. P. de French essays 844.64
Seneca, L. A. Latin drama 872.6
misc. 878.5
[1] stoic phil. 188.6
Seneca Co., N. Y. history 974.769
[1] Senegambia history **966.3**
[1] Sennaar, Egypt " 962.9
Sensation, beginnings of biology 576.4
in animals zoölogy 591.18
plants botany 581.18
mental faculties **152**
Sensationalism 145
Sense **mental faculties** **152**
Sensibility " " 157
Sensitive plant botany 583.32
physiol. botany 581.5
Sensory apparatus anatomy 611.8
Sentimental music 784.3
Separate system of sewerage 628.212
Separation of powers, English gov. 354.4202
French " 354.4402
German " 354.4302
U. S. " 353.02
Sepia paint 751
Sepoy war, Indian history 954
Septic diseases **616.94**
Septicæmia diseases 616.944
obstetrics 618.74
Septuagint Bible 221.48
Sepulchre cemeteries 718
Sepulture customs 393.1
public health **614.61**
Sequence cathedral service 783.23
Serafi Catalan poetry 849.9135 √
Serao, Matilde Italian fiction 853.88
Serfs, emancipation, Russian history 947.08
origin of " " 947.04
slavery 326.3
Sergardi, Ludovico Italian satire 857.57
Sergeants'-at-law lives 923.442
Serials see subject
Sericeous secretion animals 591.142
Sericulture 638
Series algebra 512.4
calculus 517.21
trigonometry 514.2
Sermons **252**
on Amer. civil war 973.795
public worship 264.6
Serous membranes, admin. of med. by 615.66
Serpent-charming 591.57
worship 291
Serpentine economic geology 553.55
lithology 552.47
Serpents zoölogy 598.12
Servants domestic economy 647
ethics 173.8
Servants' quarters architecture 728.92
Servetus medieval philosophers 189.5
[1] Servia history 949.7
[4] **Servian language** **491.82**

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Service books Anglican ritual 264.03
Services, professional building 692.8
Servitude slavery 326
Session laws, American 345.1
English 346.1
Sestini, Bartolommeo, Italian poetry 851.68
Setons therapeutics 615.812
Setting type printing 655.25
Seven champions 398.2
sages 398.2
sleepers 398.2
weeks' war German history 943.081
wonders of the world 609
years' war German history 943.056
Seventh day Adventists sects 289.3
Baptists " 286.3
Sabbath 263.2
[1] Seville history 946.8
travels 914.68
Sewerage city administration 352.6
engineering 628.2
systems 628.21
Sewers and outlets air pollution 614.765
disinfection public health 614.48
Sewing domestic economy 646
machine 687
shoes 685
tailoring 687
Sex customs 392
in education 376
nature 577.8
influence of therapeutics 615.55
mortality public health 614.141
origin of evolution 575.9
production of embryology 591.36
Sexes mental characteristics 136.1
Sextant astron. instrument 522.41
finding time by, horology 529.74
Sexual ethics 176
science 612.6
selection evolution 575.5
variation animals 591.156
Shade and light architect. design 729.14
Shades and shadows, descrip. geom. 515.7
Shadows, perspective 515.63
Shaft sinking, mining 622.25
Shafting mill work 621.82
Shaftsbury, Earl of English essays 824.51
Shakers sects 289.8
Shakspere English drama 822.33
Shale lithology 552.52
[1] Shanghai history 951.1
travels 915.11
Sharks 597.3
Shaw, H: W. American humor 817.46
Shay's rebellion Mass. history 974.4
Shearing tools, mechan. engineering 621.96
Sheaths of tendons anatomy 611.75
diseases of 616.76
Sheep, diseases of, compar. medicine 619.3
domestic animals 636.3
[1] Sheffield history 942.74
travels 914.274
Shelf dept. library economy 025.8
Shell banks prehist. archæology 571.93
fish business 639
zoölogy 594
Shelley, P. B. English poetry 821.77
Shells fossil 564
pre-hist. archæology 571.13
projectiles 623.4
zoölogy 594
Shelter of laboring classes, pol. econ. 331.83
Shelton, F: W: American satire 817.33
Shelving library building 022.9
Shemitic languages 492
Shenstone, W:, English poetry 821.58
Sheol eschatology 236.4
Sheridan, R. B. B. English drama 822.66
oratory 825.64
Sheriffs law 347.96
local government 352.2
[1] Shetland Islands history 941.11
travels 914.111
Shillaber, B. P. American humor 817.34
Shingle roofs building 695.1
Shingles skin diseases 616.52
Ship building 699
canals engineering 626.9
sociology 386
fever diseases 616.922
life hygiene 613.68
propulsion mechanical eng. 621.12
railways 625.9
Shipping and freighting, useful arts 656
history of sociology 387
laws 347.7
Ships, disinfection, in contag. disease 614.48
iron 699
clad military eng. 623.9
transportation 656
Shipwrecked, rescue of, prot. of life 614.868
Shipwrecks adventures 910.4
life saving methods 656
[1] Shoals, Isles of history 974.2
travels 917.42
Shock result of injury 617.21
Shoemaking manufacturing 685
Shoes costume 391.4
Shone system sewerage works 628.214
Shooting galleries architecture 725.89
sport 799

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Shops, machine architecture 725.43
railway " 725.33
Short-hand 653
Shortsightedness eye diseases 617.75
Shower baths hygiene 613.44
Shows entertainments 791
public customs 394.2
Shrimps **zoölogy** 595.31
[1] Shropshire, Eng. history 942.45
Shrub adulterations 614.346
Shrubbery landscape gardening 715
Shrubs **botany** 582
Shutters architectural const. 721.87
Sialagogues therapeutics 615.741
[1] Siam history 959.3
[1] Lower history 959.5
Siamese architecture 722.4
language 494
twins deformities 617.35
natural hist. of man 573.9
[1] Siberia history 957
Sibylline books magic 133.3
Sicilian Norman architecture 723.45
Sicily ancient history 937.8
[1] modern " 945.8
Sick, food for hygiene 613.23
headache diseases 616.857
hospitals for 362.1
architecture 725.51
ministry of sacraments 265.8
parish care of 258
room domestic economy 649
Sidereal clock and chronometer 522.51
day chronology 529.1
month astronomy 523.33
chronology 529.2
Sidney, P. English poetry 821.32
Sieges military engineering 623.2
[1] Sierra Leone, history 966.4
Sight anatomy 611.84
asylums for the blind 362.4
diseases of 617.7
mental faculties 152.1
optics 535.7
physiology 612.84
Sigismund German history 943.027
Sign boards advertising 659
language 419.1
painting 698
Signal service meteorology 551.5
Signals electric 537.88
in navigation acoustics 534.83
military military eng. 623.7
telegraphic 654.9
Signs of pregnancy 618.22
Sikh religion 299.11
Sileneæ botany 583.153
[1] Silesia, Austria history 943.73
[1] Prussia " 943.14
Silhouettes 741
Silicates **mineralogy** 549.6
Silicon inorganic chemistry 546.28
Silius Italicus, Latin epic poetry 873.4
Silk culture 638
dyeing chemical technology 667.2
manufacture 677
mills architecture 725.41
worm agriculture 638
zoölogy 595.78
Silos agriculture 633
Silt lithology 552.52
Silurian age **geology** 551.73
Silver inorganic chemistry 546.57
metallurgy 669.2
mining 622.34
money 332.41
ores economic geol. 553.42
plating manufacture 671
Silversmiths' work fine arts 739
Silverware domestic economy 645
fine arts 739
manufactures 671
Simarubeæ botany 583.241
Similarity plane geometry 513.17
Simms, W: G., American fiction 813.35
Simonides of Ceos Greek lyrics 884.4
Samos " satire 887.2
Simony canon law 348
eccles. polity 262.9
Sin doctrine 233.2
Sinai ancient history 939.48
[1] modern " 953.1
Sinaitic inscriptions 492.1
[1] Sinaloa, Mexico history 972.3
[1] Sind, India " 954.7
[4] **Sindhi language** 491.41
[4] **Singhalese** " 491.48
[1] Singapore history 959.5
travels 915.95
Singers, lives of 927.8
Singing public worship 264.2
vocal music 784
Single altitude, finding time by 529.73
curved lines descr. geom. 515.12
surfaces " " 515.14
standard coinage 332.42
Sinking fund, finance 336.33
Sintooism 299.5
Sinus surgery 617.23
Siphonophora, zoölogy 593.72
Sirenia mammals 599.5
Sirocco meteorology 551.51

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Sisterhoods parochial work 255
religious orders **271.9**
Sisters of Charity 271.91
Mercy 271.92
[1] Sivas, Asia Turkish history 956.5
Size notation for books 025.3
Sizes of books, publishing 655.53
shelf depart., lib. econ. 025.8
type printing 655.24
Sjöberg, Erik, Swedish satire 839.7762
Skating 796
rinks architecture 725.86
Skeleton, human 611.71
leaves fancy work 746
of animals comp. anat. 591.49
descript. anat. 591.79
Skeletons, preparations of 579.1
Skelton, J: English poetry 821.22
Skepticism natural theology 211
Sketching drawing 741
Skew arches architecture 721.42
Skill, games of, amusements 794
ethics 175.4
Skilled labor, political economy 331.7
Skin absorption 612.384
administration of medicine by 615.67
anatomy 611.77
diagnosis pathology 616.073
diseases " **616.5**
function of physiology 612.79
Skirmishing military science 355
Skull anatomy 611.91
craniology 573.7
[1] Skye, Scotland history 941.17
Slags metallurgy 669.8
Slander ethics 177.3
[3] **Slang English language** **427**
modern English language 427.09
Slate roofing building 695.2
Slater fund education 373.75
Slates building stones 553.54
lithology 552.44
Slating building 695
Slaughter houses air pollution 614.741
industrial sanit. 628.549
Slaughtering, meth. of an. hyg. **614.97**
Slave holding slavery 326
law, fugitive " 326.973
trade " 326.1
Slavery **326**
abolition of, U. S. history 973.714
American 326.973
defences of 326.7
Slaves' biography 326.92
Slavic languages **491.8**
philosophers 197
Slavic philosophers' lives **921.7**
[1] Slavonia history 943.93
[4] Slavonic church language 491.81
Sleep 135
and rest hygiene 613.79
of plants botany 581.54
walking 135
Sleight of hand 791
Slide valves steam engines 621.11
Slides, mounting of microscopy 578.6
Sliding friction mechanics 531.44
[1] Sligo, Ireland history 941.72
Slime treatment ore dressing 622.76
Sloth ethics 179.8
Sloths mammalia 599.3
[4] **Slovakian language** **491.87**
[4] **Slovenian** " **491.84**
Sluices engineering 621.29
Small-pox diseases 616.912
inoculation, pub. health 614.471
public health 614.521
Smell, nerves of anatomy 611.86
physiology 612.86
senses 152.3
Smelting metallurgy 669.8
Smith, Henrik, Danish miscellany 839.8825
S. English essays 824.72
Smith college, colleges for women 376.8
Smithsonian Institution 506
Smoke air pollution 614.71
flues heating 697.8
nuisance, sanitation **628.53**
Smoking ethics 178.7
hygiene 613.84
Smollett, T. G. English fiction 823.63
Smooth muscles physiology 612.73
Smuggling criminal law 343
Smut agriculture 632
fungi 589.227
[1] Smyrna, Asia Turkish history 956.2
travels 915.62
Snakes 598.12
Sneezing therapeutics 615.726
Snow meteorology 551.57
Soap-making air pollution 614.744
chemical technology 668.1
Soapstones economic geology 553.55
Sociability animals 591.55
Social clubs 367
customs, bad hygiene 613.87
democracy socialism 335.5
distinctions ethics 177.5
rank 929.7
drinking temperance 178.3
ethics 177
evil 176.5

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Social obligations ethics 177.8
science 300
worship 264.7
Socialism 335
Socialistic communities in U. S. 335.973
Societies 360
debating 374.4
for home study 374.8
parish work 256
general 060
learned, buildings arch. 727.9
secret " " 728.4
[8] special see subject
Society, ethics 177
for ethical culture 170.6
houses student life 371.86
[1] Islands history 996.2
libraries, library economy 027.2
of Jesus monastic orders 271.5
the Cincinnati 369.131
songs music 784.6
Socinians heresies 273.4
Unitarian church 288
Sociology 300
biography of 923
Socrates Greek philosophy 183.2
Socratic philosophy 183.3
Soda chemical technology 661.3
water adulterations 614.348
chem. tech. 663.6
Sodalities parish work 256
Sodium inorganic chemistry 546.33
Sœurs de bon Secours sisterhoods 271.94
[1] Sofala, Africa history 968.1
Sogdiana ancient history 939.61
Soil conditions affecting health
public health 614.77
disinfection, in contagious dis. 614.48
Soils agriculture 631
Solanaceæ botany 583.79
Solar day chronology 529.1
engines engineering 621.47
observation, astron. instruments 522.56
parallax and transit of Venus 523.92
physics 523.7
spectrum astronomy 523.77
system, descriptive astron. 523.2
year 529.2
Soldiers' cemeteries, national 719
food for hygiene 613.21
homes architecture 725.59
lives biography 923.5
military science 355
Sol-Fa method music 784.9
Solidification, heat 536.43
Solids geometry 513.3
Solids, properties of physics 539.2
Solitary confinement punishments 343.2
vice ethics 176.4
Solitude 177.8
[1] Solomon Islands history 993.5
Solomon, Song of Bible 223.9
Solos music 784.81
Solubility theoretical chemistry 541.8
Solution, chemical 542.6
of plane triangles, trigon. 514.5
spherical triangles, " 514.7
trigonom. equations 514.4
Solutions quantitative analysis 545.6
[1] Somali, Africa history 967.7
[1] Somerset, England " 942.38
[1] Somme, France " 944.26
Somnambulism 135
Somnambulists' lives 920.9
Sonata organ music 786.81
piano " 786.41
Song festivals music 784.5
of Solomon Bible 223.9
the three children, " 229.5
Songbooks folk-lore 398.8
Songs 784
[5] and ballads, English literature 821.04
music 784.3
for female voices 784.88
male " 784.87
with music 784
[5] **Sonnets English literature** 821
[1] Sonora, Mexico history 972.1
Sophist philosophy 183.1
Sophocles Greek drama 882.2
[4] **Sorbian language** 491.88
Sorcery 133.4
Sore throat diseases 616.31
Sores surgery 617.24
Sorghum agriculture 633
manufactures 664.1
Sorterup, Jörgen Danish poetry 839.8141
Soteriology doctrinal theology 234
hygiene 613
[1] Soudan, Africa, history 966.2
[1] Egypt, " 962.6
Soul in animals 591.51
metaphysics 128
origin of metaphysics 129
Soumet, Alexandre French drama 842.71
Soundings marine surveying 526.99
physical geog. 551.46
Sources of animal heat physiology 612.51
[1] **South Africa** history 968
America, description 918
eccles. history 278
geology 558

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

[1] South America, history 980
statistics 318
American languages 498
travels 918
[1] Atlantic States, history 975
[1] Australia, " 994.2
[1] Carolina, U. S. " 975.7
[1] Central States, Amer. hist. 976
travels 917.6
[1] Russia history 947.7
travels 914.77
[1] Sea Islands history 996
travels 919.6
scheme stocks 332.6
[1] west, U. S. history 978
travels 917.8
Southern Atlantic ocean 551.464
[1] States U. S. history 975
Southerne, T: English drama 822.52
Southey, R. " poetry 821.73
Souvestre, Émile French fiction 843.75
Sovereigns' lives 923.1
Sovereignty pol. science 320.1
Space astronomy 523.14
metaphysics 114
sense physiology 612.881
Spadicifloræ botany 584.6
Spain administration 354.46
antiquities 913.46
Arabs in history 946.02
architecture 720.946
botany 581.946
finance 336.46
geology 554.6
history 946
maps 912.46
schools 379.46
statistics 314.6
travel 914.6
treaties 341.246
other topics see table 1
[1] Spanish America history 972
travels 917.2
architecture, Romanesque 723.46
Armada English history 942.055
Spanish " 946.04
art 709.46
Austrian ascend., Ital. hist. 945.07
inquisition, persecutions 272.2
[6] language 460
literature 860
philosophers' lives 921.6
philosophy 196
rule Mexican history 972.02
Spar economic geology 553.66
Spark, induction electricity 537.52
Sparring amusements 796
Sparta ancient history 938.9
Spartan supremacy Greek histoty 938.06
Spas, buildings for architecture 725.75
hygiene 613.12
Speakers oratory 808.5
Speaking tubes communication 654.8
Specie payment banking 332.4
Species, origin of 575.8
Specific customs taxation 336.26
gravity chemistry 542.3
of liquids physics 532.4
physics 531.54
Specifications for building 692.3
Specifics therapeutics 615
Specimen books printing 655.24
Specimens, arrange. in museums 579.7
mounting of 579.5
preservation in " 579.8
Spectacles disorders of vision 617.75
optics 535.86
Spectres 133.1
Spectroscope, optics 535.84
Spectroscopy, astronomy 522.67
Spectrum analysis chemistry 544.6
optics 535.84
qualitative anal. 544.6
of comets, astronomy 523.67
meteors " 523.57
moon " 523.37
stars " 523.87
sun " 523.77
Speculation banks 332.6
ethics 174.5
Speech, impediments of 612.78
organs of acoustics 534.7
human anatomy 611.2
philology 400
phonology 414
physiology 612.78
visible comparative philol. 414
[5] Speeches English oratory 825
Spegel, Haquin Swedish poetry 839.7133
[3] Spelling books, English language 428.1
[3] phonetic, " " 421.4
[3] reform, " " 421.4
Spencer, Herbert, " philosophy 192.8
Spenser, E. " poetry 821.31
Sperm cells development 591.171
Spermatic cord anatomy 611.63
diseases of 616.68
secretions phys. zoölogy 591.146
Spermatorrhœa diseases 616.69
Speroni, Sperone Italian drama 852.41
Speusippus Greek philosophy 184.2
Sphagna botany 588.1

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Spheres perspective 515.65
Spherical astronomy 522.7
coördinates astronomy 522.71
excess triangulation 526.41
geometry 513.41
projections, des. geom. 515.5
trigonometry 514.6
comput. of triangulation 526.44
Sphero-conics analytical geometry 516.58
modern " 513.58
Spheroidal trigonometry comput. of triangulation 526.45
Sphinx Egyptian mythology 299.31
Sphygmograph diagnosis 616.071
physiology 612.16
[1] Spice Islands, history 991.3
Spices adulterations 614.314
chemical technology 664.5
Spiders zoölogy 595.4
Spielhagen, F; German fiction 833.84
Spinal cord and its meninges anat. 611.82
functional diseases of 616.84
physiology 612.83
structural diseases of 616.83
curvature 616.73
poisons therapeutics 615.97
Spindles stone age 571.26
Spine, curvature of diseases 616.73
Spinning manufactures 677
Spinoza German philosophers 193.9
pantheism 147
Spirals anal. geometry 516.26
Spires and domes, arch. construction 721.57
architectural design 729.35
Spirit doctrinal theology 233.5
leveling, geodesy 526.36
Spiritism 133.9
Spiritual body doctrinal theology 233.5
heredity " " 233.3
mental characteris. 136.3
metaphysics 129.2
Spiritualism metaphysics 111
modern 133.9
sects 289.9
Spirituous liquors chem. tech. 663
temperance 178
[1] Spitzenberg history 998
travels 919.8
Spleen anatomy 611.41
diseases of 616.41
Splenic fever " 616.956
Splints surgery 617.92
Spoils system, civil service 351.6
Sponges zoölogy 593.4
Spontaneity metaphysics 127
Spontaneous combustion chemistry 541.3
generation 576.1
Sporadic cholera diseases 616.933
Sports, out door 796
parlor 793
Spots on the sun 523.74
Spotted fever diseases 616.925
Sprague, Charles American poetry 811.28
Sprains surgery 617.17
Spring tides 525.63
Springs, hot physical geology 551.23
mineral economic geol. 553.7
physical geography 551.49
water works 628.11
Sprinkling of streets sanit. of towns 628.46
Squares, least geodesy 526.5
probabilities 519.8
magic, arithmetic 511.61
Squids zoölogy 594.5
Squinting eye diseases 617.76
Stable manure, air pollution 614.761
Stables agriculture 636
air pollution 614.761
architecture 728.94
Stackhousieæ, botany 583.274
Stacks library economy 022.4
Staël Holstein, A. L. G. French fic. 843.62
Staff library economy 023.5
military science 355
music 781.2
[1] Stafford, England history 942.46
Stage ethics 175.2
theatre 792
Stagnelius, E. J. Swedish poetry 839.7164
Stained glass 748
design, architecture 729.8
sacred ornaments 247.4
Staining chemical tech. 667.6
Stairbuilding, building 694.8
stereotomy 515.83
Stairs architectural design 729.39
Stalactites and stalagmites 551.92
Stammering 616.87
Stamp act Eng. history 942.073
U S. " 973.3111
laws finance 336.27
Stamped leather building 698.8
Stamps, postage post office 383
practical printing 655.35
Standard solutions volumetric anal. 545.6
time 529.75
Standing army 355
Stanhope, P. D. English letters 826.52
Star catalogs 524.8
chamber Eng. history 942.05
clusters 523.85

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Star drift 523.83
fish **593.92**
Starch **adulterations** 614.312
manufacture 664.2
protec. exter. agents 615.776
vegetable drugs 615.331
Stars **descriptive astron.** **523.8**
Starvation dietetic diseases 616.39
hygiene 613.24
State and church church 261.7
state ethics 172.3
banks 332.12
control of cities adminis. 352.002
council French gov. 354.4405
German " 354.4308
debts **finance** **336.3**
department, U. S. government 353.1
education **379**
ethics **172**
governments **353.9**
laboratories **adulterations** **614.3**
law reports U. S. 345.42
libraries **027.5**
medicine **614**
ministries of architecture 725.12
monopolies 336.19
ownership of land 333.1
political science **320**
prisons architecture 725.61
properties **finance** **336.1**
rights U. S. const. law 342.73
socialism 335.6
supervision of schools educ. 379.15
trials criminal law 343.1
universities **colleges** **378**
state education 379.16
Statecraft 320.2
[1] Staten Island, N. Y. history 974.726
States General, French legislature 328.449
German government **354.4307**
[1] States of the Church, Italy history 945.6
Statesmanship political science 320.2
Statesmen's lives **923.2**
Statical electricity **537.2**
Statics **531.2**
Stationary engines 621.16
Stationery paper manufacture 676
Stations, fire alarm architecture 725.19
police " 725.18
railway passenger " **725.31**
Statistical methods 311
Statistics **310**
labor **331**
library administration 025.1
Statius, P. P. Latin epic poetry 873.5
Statuary **730**
Statute law **American** **345**
British **346**
Steam boilers 621.18
inspection, prot. of life 614.837
engine **mech. eng.** **621.1**
physics 536.81
fitting 696.3
generation engineering 621.18
heating building 697.5
engineering 621.19
jets mine ventilation 622.43
navigation sociology 387
useful art 656
physics 536.44
pipes 696.3
pumps **621.64**
mine drainage 622.54
ships building 699
transportation useful arts 656
Stearine organic chemistry 547.7
Stedman, E. C. Amer. poetry 811.43
Steel building material 691.7
engraving 762
manufactures 672
metallurgy 669.1
piers and col. arch. 721.35
structures " 721.93
works " 725.43
Steele, R: English essays 824.53
Steering seamanship 656
Stege, H. T. Danish drama 839.8234
Stellar astronomy **523.8**
Stelleridea zoölogy 593.93
Stencils practical printing 655.35
Stenography 653
Stensen, Niels, Danish miscellany 839.883
Stephen English history 942.024
Sterculiaceæ botany 583.18
Stereographic projections des. geom. 515.53
Stereometer specific gravity 531.54
Stereometry gauging 511.8
Stereopticon optics 535.86
Stereoscopes " 535.86
Stereotomy **descr. geometry** **515.8**
Stereotyping printing 655.22
Sterility diseases of women 618.17
[1] Sterling, Scotland history 941.36
Sterne, L. English fiction 823.62
Stethometry physiology 612.2
Stethoscope diagnosis 616.074
[1] Steuben Co., N. Y. history 974.783
Stewart, Dugald, English philosophy 192.6
Sthen, H. K. Danish drama 839.8232
Stigmata devotional 248
Stijl, Simon Dutch miscellany 839.384
Still-births pregnancy 618.39

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Still-births vital statistics 614.131
Stills chemical technology 668.7
Stimulants **action of, hygiene 613.8**
and narcotics med. 615.78
ethics of using 178
manufacture 663
of circulatory system 615.711
physiology 612.393
Stipple engraving 765
Stirpiculture hygiene 613.94
Stjernhjelm, Georg, Swedish poetry 839.7131
Stock exchanges banks 332.6
jobbing 332.6
live agriculture 636
taking library economy 025.8
yards architecture 725.27
[1] Stockholm history 948.7
travels 914.87
Stockings costume 391.4
Stocks political economy 332.6
Stockwerks economic geology 553.17
Stoddard, R: H: American poetry 811.41
Stoic philosophy 188
Stoichiometry, chemistry 541.9
Stoke, Melis Dutch poetry 839.3114
Stomach, administration of med. by 615.61
anatomy 611.33
diseases of 616.33
physiology 612.32
Stone age, early 571.1
late 571.2
Stone and iron structures arch. 721.96
artificial, building material 691.3
chemical technology 666.8
piers and columns 721.33
walls 721.23
building materials 691.2
carving sculpture 736
ceilings arch. construction 721.72
construction masonry 693.1
cutters' occupation hygiene 613.63
cutting masonry 693.12
sculpture 731
stereotomy 515.81
diseases 616.62
floors arch. construction 721.62
houses, city arch. 728.31
detached " 728.37
semi-detach. " 728.34
village " 728.62
natural building material 691.2
piers and columns, arch. constr. 721.32
quarries pre-historic arch. 571.21
remains, neolithic 571.24
paleolithic 571.14
walls arch. construction 721.22
Stone ware manufactures 666.6
work, bonds of masonry 693.11
Stonehenge English antiquities 913.42
Stones, building econ. geology 553.5
ornamental " " 553.8
Stopping teeth dentistry 617.67
Storage buildings architecture 725.3
cold " 725.35
of electricity, engineering 621.35
science 537.84
explosives, protec. of life 614.831
noxious materials air pollution 614.75
rooms library economy 022.4
safe deposit architecture 725.35
Store and apartment build. arch. 725.22
Store-houses, R. R. architecture 725.33
Stores, coöperative political econ. 334.5
retail architecture 725.21
wholesale " 725.21
[2] **Stories English fiction 823**
Storm, Edvard Danish poetry 839.8154
Storms meteorology 551.55
wind meteorology 551.51
Story, Isaac American satire 817.21
Story of Susanna Apocrypha 229.6
Stoves domestic economy 644
heating building 697.2
manufactures 672
Stowe, Harriet Beecher Am. fiction 813.37
Strabismus eye diseases 617.76
Straight lines, descriptive geometry 515.11
Strain, effects of diseases 616.983
Strains bridge engineering 624.2
[1] Strasburg history 943.44
travels 914.344
Strategy 355
Stratification, geology 551.81
Stratified ore deposits, econom. geol. 553.14
Stratigraphical geology 551.7
Strato Greek philosophy 185.4
Strawberries agriculture 634
Street-car stations architecture 725.317
cleaning 628.46
railways engineering 625.6
Streets " 625.7
laying out of, hyg. of ground 614.781
local administration 352.7
Strength of materials engineering 620.1
molec. phys. 539.4
Strengthened beams carpentry 694.3
Stresses bridge engineering 624.2
Stricker, Der German satire 837.21
Stricture of rectum diseases 616.35
Strike geology 551.85
Strikes political economy 331.89

Stringed instruments 787
Strinnholm, A. M. Swedish misc. 839.7862
Striped muscles physiology 612.74
Strontium inorganic chemistry 546.42
[3] Strophe English prosody 426.7
Structural botany 581
dis. of brain and cord 616.83
geology 551.8
Structure, molecular physics 539.1
of the universe astron. 523.11
Structures, composite arch. 721.94
iron " 721.9
Strychnia spinal poisons 615.97
Strychnine nervous excitants 615.785
Stuarts English history 942.06
Irish history 941.56
Stub, Ambrosius Danish poetry 839.8145
Stucco, external masonry 693.61
village houses architecture 728.64
Student life and customs 371.8
Students' lives 923.7
Studios, art architecture 727.7
Study rooms library economy 022.5
school architecture 727.1
self-culture 374
of special topic see subject
Sturgeons fishes 597.4
Stuttering 616.87
[1] Stuttgart history 943.47
travels 914.347
Styes, hog air pollution 614.762
Style fashion 390
literary rhetoric 808
Styles of type, printing 655.24
Stylidieæ botany 583.57
Styraceæ " 583.686
[1] Styria history 943.65
[1] Suabia, Germany " 943.37
Subcutaneous tissue admin. of med. 615.63
Subject catalogs bibliography 017
library admin. 025.3
Subjectivity knowledge 121
Sublime and beautiful æsthetics 701
Submarine armor 627
cables telegraphy 654.5
mines military eng. 623.2
telegraph sociology 384
useful arts 654.5
tunnels mining eng. 622.26
warfare mil. " 623.9
naval " 623.9
Submerged vessels ship building 699
Subscription book publishing 655.57
libraries 027.3
to creeds, eccles. polity 262.8
39 articles, Ang. ch. 283.42
Subsidence of sewage sanitation 628.33
Subsidies protection 337.4
Substance metaphysics 111
Substitutions algebra 512.86
Sub-surface irrigation sewage 628.364
Subways hygiene of ground 614.782
road engineering 625.4
sanitation 628.47
Success in life ethics 174
Succession, apostolic eccles. pol. 262.11
monarchical, pol. science 321.6
to Eng. crown, const. law 342.42
property law 347.6
Suckling, J: English poetry 821.41
Suction pump, physics 533.85
Suctoria parasitica ectozoa 616.9688
Sue, Eugene French fiction 843.74
Suetonius Latin literature 878.7
Suez Canal engineering 626.9
[3] Suffixes English etymology 422.2
Suffocation protection of life 614.82
[1] Suffolk, England history 942.64
[1] Co., Mass. " 974.46
[1] N. Y. " 974.725
Suffrage 324
Sufism Oriental philosophy 181.5
Sugar adulterations 614.311
cane agriculture 633
manufacture 664.1
organic chemistry 547.3
refinery 664.1
refining air pollution 614.734
vegetable drugs 615.332
Suhm, P. F. Danish miscellany 839.8845
Suicide customs 394.8
ethics 179.7
Suits in equity law 347.8
[1] Sullivan Co., N. Y. history 974.735
Sully-Prudhomme French poetry 841.84
Sulphates chemical technology 661.6
Sulphides mineralogy 549.3
Sulphur chemistry 546.22
compounds air pollu. 614.725
waters econ. geol. 553.74
Sulphuric acid, chemical technology 661.2
Sulpicians monastic orders 271.75
[1] Sumatra history 992.1
travel 919.21
Summer-houses arbors 717
[1] Summer Isles, Bermuda history 972.99
travels 917.299
resorts amusements 791
architecture 728.52
schools self-education 374.6
Sumner, Charles American oratory 815.33
Sumner's method navigation 527.4

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Sumptuary laws ethics 177.4
Sun cracks geology 551.83
descriptive astronomy 523.7
dials horology 529.78
dried brick masonry 693.22
effect on tides 525.62
light hygiene 613.19
maps and observations 524.7
pictures 770
stroke injuries 616.988
worship 290
Sunda history 992
Sunday 263
closing library economy 024.4
of libraries and museums 263.7
law 263.8
observance 263.4
school buildings arch. 726.4
libraries 027.8
music 783.7
schools 268
Sunesen, Anders Danish poetry 839.8111
Sunken tubes foundations 721.18
wells " 721.17
Superfœtation animals 591.169
Superintendence, building 692.6
Superior, Lake travels 917.7
Supernatural metaphysics 125
theology 231.7
Supernaturalism delusions 133
Supernumary organs deformities 617.36
Superstitions 133
Supervision administration 351.93
of accounts building 692.7
Supplies library administration 025.1
Supply and demand political econ. 338
Suppuration diseases 617.22
Suprarenal bodies anatomy 611.45
diseases of 616.45
Supremacy, papal, ecclesiastical polity 262.13
Supreme Court reports, U. S. 345.4
Sureties commercial law 347.7
Surface features of the earth 551.4
geology 551
transportation mining 622.69
Surfaces of revolution, descr. geom. 515.16
warped " " 515.17
Surfeit dietetic diseases 616.39
Surgeon Gen., U. S. A. reports 353.6
Surgeons' lives 926.1
Surgery 617
Surgical dressings 617.93
instruments 617.91
operations 617.4
pathology 617
Surnames genealogy 929.4
[1] Surrey, Earl of English poetry 821.28
England history 942.21
Surrogate courts 347.99
Surveying, geodesy 526.9
subterranean, mining eng. 622.14
surveying 526.99
Surveys, general scientific 508.3
sanitary public health 614.77
Survival of the fittest evolution 575.6
Susanna, Story of Bible 229.6
Susceptibility, emotions 157
Susiana ancient history 935.9
Suspended animation medicine 616.206
Suspension bridges 624.5
[1] Sussex, England history 942.25
travels 914.225
[1] Sutherland, Scotland history 941.14
Suttee treatment of the dead 393.9
Sutures surgery 617.93
Svaning, Hans Danish miscellany 839.883
Svart, P. A. Swedish " 839.7821
[1] Svealand, Sweden history 948.7
Svedenborg, Emanuel Swedish miscellany 839.7836
[1] Swabia, Germany history 943.47
travels 914.347
Swallows zoölogy 598.8
Swearing, legal 347.94
profane ethics 179.5
Sweat glands, disorders of 616.56
Sweden **administration** 354.485
antiquities 913.485
architecture 720.9485
botany 581.9485
colleges 378.485
constitutional law 342.485
education 370.9485
finance 336.485
geology 554.85
[1] **history** 948.5
laws 349.485
maps 912.485
religious history 274.85
schools, public 379.485
statistics 314.85
travel 914.85
treaties 341.2485
zoölogy 591.9485
Swedenborgian church 289.4
Swedish architecture, Romanesque 723.48
church sects 284.7
[4] **language** 439.7
literature 839.7
movement cure massage 615.82
Swift, J. English satire 827 52

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Swimming 796
animal locomotion 591.47
baths, architecture 725.73
Swinburne, A. C. English poetry 821.86
Swine, diseases of comp. medicine 619.4
domestic animals 636.4
Swiss architecture 724.7
Switzerland administration 354.494
antiquities 913.494
architecture 720.9494
botany 581.9494
colleges 378.494
constitutional law 342.494
education 370.9494
finance 336.494
geology 554.94
[8] **history 949.4**
laws 349.494
maps 912.494
religious history 274.94
schools, public 379.494
statistics 314.94
travel 914.94
treaties 341.2494
zoölogy 591.9494
Sword exercise 796
[1] Sydney, Australia history 994.4
travels 919.44
Syenite economic geology 553.52
metamorphic rocks 552.41
plutonic rocks 552.32
Syllogism logic 166
Symbolic logic 164
Symbolism religious art 246
Symmetric functions algebra 512.84
Sympathetic nervous system, diseases 616.88
physiol. 612.89
Sympathy emotions 157
Symphony orchestral music 785.1
Symphyseotomy, obstetric operations 618.85
Symptomatic diseases of women 618.17
Symptoms diagnosis 616.07
Synagogues architecture 726.3
Synchronology history 902
Synclinal structural geology 551.86
Synod ecclesiastical polity 262.4
[3] Synonyms English language 424
Syntax comparative philology 415.2
[3] **English language 425.2**
Synthesis chemistry 545.9
logic 160
Syphilis diseases 616.951
public health 614.547
vaccinal, contag. dis. 614.4733
Syphon physics 532.56
[2] Syracuse, N. Y. history 974.766
Syracuse, Sicily ancient history 937.8
Syria " " 939.4
Cœle " " 939.42
Upper " " 939.41
[4] **Syriac language 492.3**
Syrian church, sects 281.5
[1] desert history 953.9
philosophy 181.9
Syrtica Regio, ancient history 939.74
Syrup adulterations 614.311
Systematic botany 580
catalogs, bibliography 017
theology 230
Syv, Peder Danish poetry 839.8133
[1] Tabasco, Mexico history 972.6
Tabernacle biblical antiquities 220.93
sacred furniture 247.2
Tabernacles architecture 725.92
Table and parlor games 793
[5] **talk English literature 828**
tipping, spiritualism 133.9
Tableaux 793
Tables acoustics 534.9
algebra 512.9
arithmetic 511.9
astronomy 524
domestic economy 645
electricity 537.9
engineering 620.8
furniture, " " 645
library " 022.9
heat 536.9
hydrostatics 532.9
integral calculus 517.39
interest 658
life life insurance 368.3
magnetism 538.9
mechanics 531.9
mercantile 658
molecular physics 539.9
optics 535.9
pneumatics 533.9
sun's motion 525.38
water walls 721.25
Tablets, memorial monuments 718
Taccaceæ botany 584.26
Tachygraphy shorthand 653.71
Tacitus, Caius Cornelius Latin lit. 878.6
Tact mental faculties 151
Tactics, military 355
Tailoring 687
Taine, H. A. French essays 844.83
Talent mental faculties 151
[5] **Tales English literature 823**
Talipes surgery 617.39
Talmud Judaism 296

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Tamariscineæ botany 583.158
[1] Tamaulipas, Mexico history 972.1
Tambourine, instruments 789.4
Tamil language, Dravidian 494
literature 894
Tammany political associations 363
Tangents trigonometry 514.1
Tank sewers 628.28
Tanks, R. R. architecture 725.33
Tanning 675
air pollution 614.745
Tannins vegetable drugs 615.334
Tansillo, Luigi Italian poetry 851.43
Tantalates mineralogy 549.71
Tantalum chemistry 546.88
Taouism 299.5
Tape-worms parasitic diseases 616.964
Tapestry 746
building 698.7
Tapioca chem. technology 664.2
Tar " " 668.4
coal chem. tech. 668.7
roofing building 695.6
water medicine 615.3252
Tarascan civilization Mexican hist. 972.013
Tardiness school discipline 371.52
Targums Chaldee versions 221.42
Tariffs **337**
[1] Tarn, France history 944.85
[1] et Garonne, France history 944.75
Tartar emetic, medicine 615.731
[1] Tartary history 950
travels 915
Tasks school discipline 371.56
[1] Tasmania history 994.6
Tasso, Bernardo Italian poetry 851.35
Torquato " " 851.46
Tassoni, Alessandro " satire 857.51
Taste æsthetics 701
anatomy 611.87
and criticism, fine arts 701
in printing 655.26
mental perceptions 152.4
physiology 612.87
Tavsen, Hans, Danish poetry 839.812
Tax titles law 347.2
Taxation local government 352.1
political econ. 336.2
Taxes for raising library funds 021.9
tariff 337
Taxidermy 579.4
Taylor, Bayard American poetry 811.46
Z., presidency of 973.63
Taylor's theorem algebra 512.4
Tea adulterations 614.347
cultivation, agricult. 633
Tea domestic economy 643
hygiene 613.37
Teachers and teaching **371**
Teachers' institutes education 370.7
lives **923.7**
[2] Teaching of special topics see subject
Teas, commercial mixing of 663.9
Technical dictionaries 603
on special topics see subject
education 607
on special topics see subject
schools architecture 727.4
Technological schools 607
on special topics see subject
Technology **600**
chemical **660**
Teeth animals 591.73
artificial dentistry 617.69
dentistry **617.6**
diseases of **617.6**
human anatomy 611.31
physiology 612.31
Teetotalism temperance 178.2
Tegel, E. G. Swedish miscellany 839.7822
Tegnér, Esaias " poetry 839.7163
[1] Tehuantepec, Mexico history 972.7
ship canal engineer. 626.9
Telegraph buildings architecture 725.23
electrical applications 537.81
finding longitude by 525.47
military signals 623.7
sociology 384
Telegraphic construction 654.4
instruments 654.1
Telegraphs administration 351.817
Telegraphy **useful arts** **654**
Teleology metaphysics 124
Teleostei fishes 597.5
Telephone communication 654.6
electricity 537.82
sociology 384
useful arts 654.6
Telescope **astronomy** **522.2**
optics 535.83
zenith astronomy 522.43
Telescopes famous 522.29
Tellez, Gabriel, Spanish drama 862.33
Tellurates mineralogy 549.77
Tellurides " 549.3
Tellurium chemistry 546.24
Temper ethics 179.8
Temperament, piano 786.2
Temperaments, mind and body 137
Temperance **178**
hygiene 613.81
in laboring classes 331.84

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Temperance legislation 178.4
reformatories 178.6
Temperature, animal heat 612.5
conditions, anim. heat 612.54
of life 577.4
elevated hygiene 613.64
hygiene 613.18
in diseases, diagnosis 616.075
measurement 536.5
of air meteorology 551.52
body physiology 612.56
earth geology 551.12
sense physiology 612.882
therapeutics 615.832
variable hygiene 613.64
Tempering manufactures 671
molecular physics 539.54
Templars 366
knights 929.712
Temples architecture 726.1
student society halls 371.86
Temporal power papacy 262.13
relig. hist. 270.4
Temporary halls architecture 725.92
Temptation doctrinal theology 233.2
Temptations of laboring classes 331.84
Tenants law 347.2
Tender, legal, paper money 332.5
Tendons anatomy 611.74
diseases of 616.75
sheaths of anatomy 611.75
diseases of 616.76
Tenement houses architecture 728.1
Tenements hygiene 613.53
Teneriffe description 914.68
[1] Tennessee, U. S. history 976.8
Tennyson, A. English poetry 821.81
Tenotomy surgery 617.47
Tension strength of materials 620.1
Tent life hygiene 613.67
Tenting out-door sports 796
Tents as dwellings prehistoric arch. 571.86
Tenure of land law 347.2
political economy 333
office, civil service 351.4
library economy 023.2
teachers' 371.14
Teratology animals 591.2
monstrosities 591.159
natural hist. of man 573.9
plants 581.22
surgery 617.3
Terence Latin drama 872.5
Teresa de Jesús Spanish misc. 868.33
Terminology metaphysics 112
Terms schools 371.23
Ternstrœmiaceæ **botany 583.166**
Terra cotta and iron structures, arch. 721.97
art 738
construction masonry 693.3
manufactures 666.6
piers and columns, arch. 721.34
porous, constr. masonry 693.4
works architecture 725.48
Terra del Fuego travels 918.2
[1] di Otranto, Italy history 945.76
travels 914.576
Terraces physical geology 551.35
Terrapin zoölogy 598.13
Terrestrial magnetism 538.7
means of finding longitude 525.47
Tertiary age geology 551.78
Tertullian philosophy 189.2
Tessin, K: G. Swedish miscellany 839.7841
Test laws, Eng. religious history 274.2
Testacea 594
Testament, New 225
Old 221
Testamentary law 347.6
Testes anatomy 611.63
Testi, Fulvio Italian poetry 851.53
Testimony, expert evidence 347.94
state control of 614.23
legal evidence 347.94
probabilities 519.3
Tests chemical analysis 543
Testudinata zoölogy 598.13
Tetanus diseases 616.854
surgery 617.27
Tetracorolla 593.61
Teutonic minor languages 439
mythology 293
[1] Texas, annexation of, U. S. history 973.61
U. S., history 976.4
Text books instruction 371.32
Textile fabrics, inspection of 614.37
manufactures 677
prehistoric archæology 571.54
factories or mills, architecture 725.41
hangings building 698.7
roofing " 695.8
Texts comparative philology 418
[3] English philology 428.8
[3] **for learning Eng. lang. 428**
Thaarup, T: Danish drama 839.8255
Thackeray, W. M. English fiction 823.82
Thales Greek philosopher 182.1
Thallium chemistry 546.52
Thallophyta 589
Thames river description 914.22
Thanksgiving day customs 394
sermons 252.6

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Thasos ancient history 939.11
[1] modern " 949.91
Thatch roofing 695.9
Theaters amusements 792
architecture 725.82
ethics 175.2
hygiene 613.55
Theatricals, private 793
Theban supremacy Greek history 938.06
[1] Thebes, Egypt history 962.3
Theft law 343
Thefts of library books 024.8
Theism natural theology 211
Themistocles Greek letters 886.1
Theocritus " lyric poetry 884.6
Theodicy God 231.8
Providence 214
Theodolite surveying 526.91
Theodosius III. Byzantine history 949.501
Theognis Greek poetry 881.1
Theologians' lives **922**
Theological education religion 207
seminaries, architecture 727.4
religion 207
Theology **200**
biography of **922**
natural **210**
Theophanies 231
Theophrastus, ancient philosopher 185.2
Theoretical astronomy **521**
chemistry **541**
ethics **171**
Theories of construction building 690.1
[2] special subject see subj.
Theosophy 212
Therapeutics **615.5**
Thermal springs seismology 551.23
Thermo-chemistry 541.1
Thermodynamics 536.7
Thermometers 536.51
mechanic trades 681
Thermometry, meteorology 551.52
pathology 616.075
Thermoscope **536.5**
Thessalonians I. Bible 227.81
II. " 227.82
Thessaly ancient history 938.2
"Theuerdank" German poetry 831.36
Thiard, Pontus de French poetry 841.35
Thibaut IV. " " 841.16
[1] Thibet, China history 951.5
Thiers' presidency French history 944.08
Thirst and hunger physiology 612.391
Thirty-nine articles creeds 238.3
Thirty years' war European history 940.7
German history 943.041
Thirty years' war Scandinavian hist. 948.04
Thompson, D. P. Am. fiction 813.31
Thomson, J. English poetry 821.56
Thomsonianism cures 615.855
Thoracic duct, diseases of 616.42
Thoracostraca 595.38
Thorax anatomy 611.94
Thoreau, H: Am. miscellany 818.31
Thorild, Tomas Swedish poetry 839.7155
Thorium inorganic chemistry 546.84
Thorn-headed worms parasitic dis. 616.966
Thorough bass music 781.3
Thought faculty **153**
transference 134
[1] Thousand Islands, N. Y. history 974.758
Thracia ancient history 939.89
Thread worms parasitic diseases 616.965
Three bodies, problem of, astronomy 521.13
Thrift, laboring classes polit. econ. 331.84
Throat diseases 616.31
protection of, in factories 628.512
surgery 617.53
Thrombosis, venous puerperal dis. 618.77
[1] Throndhjem, Norway history 948.4
Thrones arch. accessories 729.93
Thucydides Greek literature 888.2
Thugs 299.11
Thunder 537.4
storms meteorology 551.55
Thurible sacred ornaments 247.9
[1] Thuringia, Germany history 943.22
Thymelæaceæ, botany 583.933
Thymus anatomy 611.43
diseases of 616.43
Thyroid body, anatomy 611.44
diseases of 616.44
Thyrotomy surgery 617.44
Thysanura 595.71
Tibullus, Albius Latin lyric poetry 874.3
Tic douloureaux diseases 616.87
Tichborne trial criminal law 343.1
Ticks animal parasites 616.9685
Tide tables 525.69
waters law 347.7
Tides **astronomy** **525.6**
physical geography **551.46**
protect. from, engin. 627.5
Tieck, L. German fiction 833.73
Ties, railroad 625.1
Tigers zoölogy 599.7
Tight boots hygiene 613.484
lacing " 613.484
Tile and iron structures architecture 721.97
floors, hollow " 721.63
hollow, construction, building 693.4
roofing " 695.3

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Tiles, building material 691.4
colored roofs 721.56
floor covering 721.68
manufactures 666.7
with iron ceilings arch. 721.73
Tiliaceæ botany 583.19
Tiling building 695.3
Till physical geology 551.33
Timber architecture 724.7
building material 691.1
forestry 634.9
gratings, foundations 721.15
manufacture 674
preservation of, build. 691.1
trade 338.1
Timbered, half, walls architecture 721.21
Timbering mines 622.28
Timbuctoo travels 916.62
Time, chronology 529
cosmic 529.77
distribution of 529.76
finding at sea 527.3
keepers watch making 681
metaphysics 115
of day hygiene 613.13
standard 529.75
systems and standard 529.75
tables, railroad 656
Timon Greek philosophers 186.1
Timothy I. Bible 227.83
II. " 227.84
Tin chemistry 546.81
group chemistry 546.8
manufacture 671
metallurgy 669.6
mining 622.34
prehistoric 571.31
ores econ. geol. 553.45
roofing building 695.4
[1]Tioga Co., N. Y. history 974.777
[1]Tipperary, Ireland, " 941.92
Tiraboschi, Girolamo Italian essays 854.63
Tirant lo Blanch Catalan fiction 849.933
Tirso de Molina Spanish drama 862.33
Tissue, connective anatomy 611.76
diseases of 616.77
subcutaneous, admin. of med. 615.63
Tissues animal histology 591.8
vegetable " 581.8
Titanium inorganic chemistry 546.82
Tithes 254
taxation 336.21
Title catalog library administration 025.3
to property, law of 347.2
Titles and duties library economy 023.7
changed book, bibliography 014
Titles of honor 929.7
Titus Bible 227.85
[1]Tlascala, Mexico history 972.4
Toads 597.8
Toadstools botany 589.222
Tobacco, cerebro-cardiac poisons 615.99
cultivation 633
ethics 178.7
hygiene 613.84
inspection of adulterations 614.36
internal revenue 336.27
state monopoly 336.19
Tobit Apocrypha 229.2
Toes, extra deformities 617.36
Toilet articles, customs 391.6
domestic economy 646
[1]Tokio history 952
travel 915.2
Toleration, religious state ethics 172.3
Tollens, Hendrick Dutch poetry 839.3154
Tolls, road and bridge 352.7
Toltec civilization Mexican history 972.011
Tomas, Bishop Swedish poetry 839.7112
Tomb-burial public health 614.612
Tombs cemeteries 718
disposal of dead 393.1
Tomich Catalan miscellany 849.9821
Tommaséo, Niccolò Italian essays 854.78
[1]Tompkins Co., N. Y. history 974.771
Tongue anatomy 611.31
diagnosis pathology 616.072
diseases of 616.31
Tonic sol-fa vocal music 784.9
Tonics aids to digestion 615.7341
[1]Tonkin history 959.9
Tonnage gauging 389
shipping 656
Tools bronze age 571.35
building 690.7
machine 621.9
mechanic trades 680
mechanical eng. 621.9
printing 655.21
stone age 571.25
Toothache dentistry 617.65
Toothed wheels 621.83
Topelius, Zakris Swedish fiction 839.7366
Topical method instruction 371.36
Topographical drawing 526.98
geodesy 526.9
Topography hygiene of ground 614.77
maps 912
military, mil. science 355
surveying 526.99
Torches chemical technology 665.1
Torelli, Achille Italian drama 852.86

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Tories, American political parties 329.8
English " " 329.942
Tornadoes meteorology 551.55
Torpedoes explosives 662.2
naval engineering 623.9
Torres Naharro, B. Spanish drama 862.39
Torsion molecular physics 539.3
Tortoises zoölogy 598.13
Torts law 347.5
Torture customs of war 399
law 340.3
persecutions 272
Total abstinence 178.2
depravity doctrinal theology 233.2
Touch anatomy 611.88
magnetism 538.2
mental faculties 152.5
physiology 612.88
[1] Toulouse history 944.86
travels 914.486
[1] Touraine, France history 944.54
Tournaments, customs 394.7
Toussaint, A. L. G. B. Dutch fict. 839.3356
Towers architectural design 729.36
water fire extinction 614.846
Towing canal engineering 626.7
Town halls architecture 725.13
officers, local gov. 352
Townley Plays English drama 822.13
Towns German local gov. 352.0435
government 352
laying out of hygiene of ground 614.781
sanitation of 628.4
Township German local gov. 352.0436
Toxicology therapeutics 615.9
Toys, inspection of public health 614.37
Trachea anatomy 611.23
diseases of 616.23
Tracheal respiration zoölogy 591.126
Tracheotomy surgery 617.42
Trachyte lithology 552.24
Tract cathedral music 783.23
societies 206
Tractarianism Anglican Church 283
Traction engines 621.14
Tractors, metallic cures 615.856
Tracts, religious, practical 240
on special topics see topic
Trade, administration 351.82
boards of architecture 725.25
commerce 381
depressions 381
domestic 381
foreign 382
free 337.2
Trade, list of books, publishers' 015
marks patents 608
copyright 655.62
law 347.7
slave 326.1
winds meteorology 551.51
Trades hygiene 613.6
mechanic 680
unions polit. econ. 331.88
useful arts 680
Traditions ecclesiastical polity 262.7
folk-lore 398.1
Traduction origin of the soul 129.2
Traffic, commerce 656
in intoxicating drinks, ethics 178.4
[5] **Tragedies English literature 822**
Training, laboring classes pol. econ. 331.86
library library economy 020.7
office law education 340.7
physical hygiene 613.7
out-door sports 796
school hygiene 371.7
schools for teachers 370.7
teachers 371.12
Trains railroad engineering 625.2
Traitors' lives 923.4
Tramps pauperism 339
Tramways city transit 388
engineering 625.6
mining engineering 622.65
[2] Transactions, see subject.
Transcendentalism 141
Transcriptions, orchestral music 785.9
piano " 786.48
Transformation of coördinates loci in space 516.34
plane loci 516.14
spherical astronomy 522.73
Transformations, algebra 512.86
Transfusion of blood therapeutics 615.65
Transit buildings astronomy 522.13
circle, astron. instruments 522.34
finding longitude by astron. 525.48
time " " 529.71
instrument 522.34
mounting 522.27
out of meridian 522.44
Transits astronomy 523.9
of Mercury 523.91
Venus 523.92
Translating, art of 808
Translations are classed with originals.
principle of, comp. phil. 418
Transliteration comparative philol. 411
in cataloging 025.3
Transmigration of souls 129.4

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Transmission, heredity evolution 575.1
hygiene 613.9
machinery of eng. 621.8
of disease, pub. health 614.43
electric power, eng. 621.34
force physics 531.8
gases physics 533.1
heat 536.2
power, mech. eng. 621.8
Transmitted disease hygiene of off-spring 613.93
Transmutation of energy physics 531.6
metals chemistry 540.1
species, evolution 575.2
Transpiration of animals 591.129
plants 581.129
Transplanting, agriculture 634
teeth dentistry 617.68
Transportation, buildings arch. 725.3
criminal law 343.2
in mines 622.6
military 355
of animals animal hygiene 614.96
of the dead, public health 614.63
sociology 380
useful arts 656
Transposition of parts deformities 617.38
Transubstantiation 265.3
[1] Transvaal, Africa history 968.2
Transversals modern geometry 513.52
[1] Transylvania, history 943.92
Trap economic geology 553.57
lithology 552.28
Trapassi, Pietro Italian drama 852.57
Trapping business 639
Trappists monastic orders 271.74
Traps in sewers sanitary eng. 628.256
Traumatic fever surgery 617.26
[1] Travancore, India history 954.8
Travel hygiene 613.69
Travelers' conversation books, Eng. 428.2
lives 923.9
Travelers, manuals for 910.2
protection of, pub. health 614.86
Traveling, art of 910.2
Travels, general 910
scientific 508.3
special see subject
Traverse tables surveying 526.91
Treadmills mechanical eng. 621.46
punishments 343.2
Treason law 343
Treasury notes paper money 332.5
U. S., administration 353.2
Treaties international law 341.2
Treating temperance ethics 178.3
Treatises, Am. and Eng. priv. law 347
Treatment of captives war customs 399
disease 616
the dead, customs 393
pub. health 614.6
Treaty of Washington 341.273
[1] Trebizond, Asia Turkish history 956.5
Trees botany 582
fruit culture 634
in streets, sanitation 628.48
ornamental 715
Tremandreæ botany 583.142
Trematoda parasitic diseases 616.963
Tremellinæ botany 589.224
Trent, council of, 1545-63 A. D., relig. history 270.6
creed of Pius IV. 238.2
Trephining surgery 617.51
Trial by ordeal law 340.3
civil 347.9
court-martial 344
criminal 343.1
ecclesiastical 262.9
jury 340.4
ordeal 340.3
state 343.1
Trials, civil law 347.91
criminal " 343.1
military " 344
Triangle musical instruments 789.3
Triangles, differences of, trigonometry 514.8
plane geometry 513.14
trigonometry 514.5
spherical geometry 513.41
trigonometry 514.7
Triangulation, compu. of, geod. 526.4
field work, geodesy 526.3
net, theory of least squares 526.53
Triassic age geology 551.76
Tribes form of state 321.2
Tribunes arch. accessories 729.92
Trichinæ economic zoölogy 591.69
parasitic diseases 616.965
Trichiniasis public health 614.562
Trichoptera entomology 595.74
Tricks with cards amusements 793
Tricycling 796
[1] Triest history 943.68
travels 914.368
Triewald, S: von Swedish poetry 839.7138
Trigonometric levelling geodesy 526.38
Trigonometry 514
Trilobites paleontology 565.39
zoölogy 595.39

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

[1] Trinidad history 972.98
Trinity doctrinal theology 231
Trios vocal music 784.83
Tripe-cleaning, air pollution 614.742
Tripods, field work geodesy 526.32
[1] Tripoli, Africa history 961.2
Trissino, G. G. Italian drama 852.33
"Triumphs" student customs 371.89
Triurideæ botany 584.71
Troas ancient history 939.21
Trochilidæ ornithology 598.8
Trojel, P. K. Danish satire 839.8752
P. M. " " 839.8751
Trollope, A. English fiction 823.87
Trombone wind instruments 788.2
[1] Tromso, Norway history 948.4
Troops Amer. civil war 973.74
Tropical plants 581.9
regions
Tropics
Trotting racing 798
Troubadours 849.1
Trout culture, fishing 639
Trouverès French literature 841.1
Troy ancient history 939.21
[1] N. Y. " 974.741
Troya, Carlo Italian essays 854.73
Truancy school discipline 371.52
Truces international law 341.3
Truck system labor and wages 331.2
Trumbull, J: American poetry 811.21
Trumpet wind instruments 788.1
Trunk-making 685
Trussed bridges engineering 624.3
Trusses 624.2
surgery 617.92
Trust companies banks 332.14
Trusts and trustees law 347.7
Truth ethics 177.3
Tuba wind instruments 788.48
Tuberaceæ botany 589.231
Tubercle diseases 616.995
Tubes, Fallopian anatomy 611.65
pneumatic, communication 654.8
speaking " 654.8
sunken foundations 721.18
Tubular bridges 624.4
Tuckerman, H: T. Am. essays 814.33
Tudor architecture 724.4
Tudors English history 942.05
Irish history 941.55
Tufa economic geology 553.58
lithology 552.22
Tuff " 552.22
Tuition fees schools 371.22
Tullin, K. B. Danish poetry 839.8151
Tumors diseases 616.992
Tune sacred music 783.6
Tungstates mineralogy 549.74
Tungsten metals 546.78
Tungusic language 494
Tunicata 594.9
Tuning forks acoustics 534.3
piano 786.2
[1] Tunis history 961.1
travels 916.11
Tunneling mining engineering 622.26
Tunnels aqueducts 628.14
Turanian languages 494
Turbine wheel, engineering 621.24
Turell Catalan miscellany 849.9822
[1] Turin history 945.1
travels 914.51
[1] Turkestan history 958.4
[1] east history 951.6
[1] Turkey in Asia history 956
[1] **Europe, administration 354.496**
botany 581.9496
finance 336.496
geology 554.96
history 949.6
maps 912.496
schools 379.496
statistics 314.96
travel 914.96
treaties 341.2496
Turkish architecture 723.3
baths architecture 725.73
customs 391.6
hygiene 613.46
harems customs 392.6
language 494
literature 894
power Greek history 949.505
Turko-Russian war Russian history 947.08
Turn halls architecture 725.85
Turneraceæ botany 583.455
Turning lathes 621.94
Turnpikes road engineering 625.7
Turtles zoölogy 598.13
[1] Tuscany, Italy history 945.5
travels 914.55
Tutor home education 373.1
Twain, Mark American humor 817.44
Twilight 525.7
Twins, etc. multiple pregnancy 618.25
Tyler, J., presidency of 973.58
R., American drama 812.21
Tympani membrana ear diseases 617.85
Type and type setting printing 655.2
for books publishing 655.53
founders' occupation hygiene 613.63

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Type founding 655.21
writers communication 652
Typhaceæ botany 584.63
Typhoid fever, pathology 616.927
public health 614.511
Typhus fever pathology 616.922
public health 614.526
Typographers' lives 926.5
Typography 655
Tyre ancient history 939.44
Tyrian architecture 722.3
[1] Tyrol history 943.64
travel 914.364
[1] Tyrone, Ireland history 941.64
Tyrotoxicon animal poisons 615.94
Tyrtaeus Greek lyric poetry 884.1
Uberti, Fazio degli Italian poetry 851.17
Udall, N. English drama 822.22
Uhland, J. L. German poetry 831.73
Ulcers surgery 617.24
Ulrich von Lichtenstein Ger. poet. 831.28
[1] Ulster Co., N. Y. history 974.734
[1] Ireland " 941.6
Ultramontanism Catholic church 282
eccles. polity 262.13
Umbellales botany 583.48
Umbelliferae " 583.481
Umbilical cord obstetrics 618.38
Umbria ancient history 937.4
[1] modern " 945.6
[3] Umlaut Eng. orthography 421.2
Unconsciousness metaphysics 127
Unction, extreme theology 265.7
Underground R. R. stations, arch. 725.319
roads engineering 625.4
mining eng. 622.62
Undershot wheels mechanical " 621.23
Understanding mental faculty 153
Undulation dynamics 531.33
sound 534.1
Undulatory theory of light 535.1
Ungulata mammals 599.7
Unification of Italy 945.09
Uniformity, act of, Eng. religious hist. 274.2
Uniforms, military 355
Union railroad stations architecture 725.313
Unionidæ zoölogy 594.1
Unions Eng. local gov. 352.0424
trade, polit. economy 331.88
Unique books, rarities 094
Unisexuales, botany 583.95
Unit of work mechanics 531.41
Unitarian church 288
Unitarians' lives 922.8
United Americans political soc. 363
brethren sects 284.6
United Kingdom history 942
[1] **Netherlands** " 949.2
Presbyterian church sects 285.4
[1] Provinces, history 949.2
Service, military and naval 355
States administration 353
antiquities 913.73
architecture 720.973
bank 332.11
botany 581.973
boundaries 973
Christian com., relig. 267.11
U. S. hist. 973.7781
coast survey 526
colleges 378.73
constitutional law 342.73
education 370.973
finance 336.73
fine arts 709.73
geology 557.3
government admin. 353
[1] **history** 973
laws 345
[4] **literature** 810
maps 912.73
religious history 277.3
sanitary com., charity 361
U. S. hist. 973.7771
schools, public 379.73
socialism 335.973
statistics 317.3
statutes 345
travels in 917.3
treaties 341.273
zoölogy 591.973
[1] **United States of Colombia hist.** 986
Unity metaphysics 111
of God doctrine 231
human race 572.1
knowledge 121
language 401
nature 501
Univalves mollusks 594.3
Universal gravitation, law of mechan. 531.51
history 909
language 408.9
suffrage 324.2
Universalism 289.1
Universalists' lives 922.8
Universals metaphysics 113
Universe astronomy 523.1
Universities 378
architecture 727.3
State and **national** 379.16
University education 378.1
people's library as the 021.2

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

		Type Variables
Universology	**cosmology**	**113**
Unregenerate	doctrinal theology	233.2
Unstratified ores	**economic geol.**	**553.15**
Upholstering furniture		645
[1] Upper Austria	history	943.62
	travels	914.362
[1] Bavaria	history	943.36
	travels	914.336
[1] **Canada**	**history**	**971**
	travels	**917.1**
[1] Egypt	history	962.3
	travels	916.23
extremities	anatomy	611.97
[1] Franconia	history	943.31
	travels	914.331
[1] Guinea	history	966.5
	travels	916.65
[1] Palatinate	history	943.34
	travels	914.334
Silurian group,	geology	551.732
Syria	ancient history	939.41
Ural-Altaic language		494
Uranium	chemistry	546.79
Uranography	**astronomy**	**523**
Uranus	planets	523.47
Urchins, sea	radiates	593.95
Uredineæ	botany	589.225
Ureters	anatomy	611.61
Urethra	"	611.62
	male diseases of	616.64
Urfé, Honoré d'	French fiction	843.41
Urinals	air pollution	614.764
	public sanitation	628.45
Urinary organs	diseases	616.63
secretion	physiology	591.149
Urine	analysis, chemical	543.9
	physiology	612.46
	study of disease	616.076
[4] **Uriya language**		**491.45**
Urodela	batrachia	597.9
Ursulines	monastic orders	271.974
Urticaceæ	botany	583.962
[1] Uruguay	history	989
Usages, social,	etiquet	395
Useful arts		**600**
	biography of	**926**
Usefulness of animals,	**econ. zoöl.**	**591.61**
plants	" bot.	581.61
Ustilagineæ	botany	589.227
Usury	banking	332.8
	law	347.7
[1] Utah, U. S.,	history	979.2
Uterines	therapeutics	615.766
Uterus	anatomy	611.66
	diseases of women	618.14
	inversion in labor	618.57
[1] Utica, N. Y.,	history	974.763
Utilitarianism	ethics	171.5
Utility of philosophy		101
Utopias	political science	320.1
Utrecht, Peace of	European hist.	940.7
Vacations	hygiene	613.76
	library economy	024.4
	staff	023.6
	school education	371.23
Vaccinal syphilis	contag. diseases	614.4733
Vaccination	**cont. diseases**	**614.473**
Vacciniaceæ	botany	583.61
Vaccinisation,	contagious diseases	614.4735
Vagabonds	pauperism	339
Vagina	admin. of medicine, by	615.66
	anatomy	611.67
	diseases of women	618.15
Vagrancy	pauperism	339
Valdés, J. M.	Spanish poetry	861.46
[1] Valencia	history	946.7
	travels	914.67
Valerian	therapeutics	615.789
Valerianeæ	botany	583.531
Vallenberg, Jakob	Swedish fiction	839.7342
Valleys	physical geography	551.43
Valois, house of	**French history**	**944.025**
Value of moneys,	comparative	332.45
standards of,	political economy	332.42
Values, average	probabilities	519.6
Valve bugle		788.47
gearing,	mechanical eng.	621.84
motions	" "	621.84
Valves	hydraulics	532.55
	sewer appurtenances	628.257
Valylene	organic chemistry	547.24
Vampire	zoölogy	599.4
Vanadates	mineralogy	549.72
Vanadium group	**chemistry**	**546.85**
Vanbrugh	English drama	822.47
Van Buren, M.,	presidency of	973.57
[1] Vancouver's Island	history	971.1
Vandals	history	943.01
[1] Van Dieman's Land	history	994.6
Vapor engines, binary	mech. eng.	621.44
of water, exhalation	physiol.	612.25
Vaporization	heat	536.44
Vapors, inhalation of	hygiene	613.62
meteorology		551.57
properties of		533.1
[1] Var, France,	history	944.93
Varangian kingdom,	Russian history	947.02
Varchi, Benedetto	Italian essays	854.38
Variable stars	astronomy	523.84
temperature	hygiene	613.64
Variables, complex	algebra	512.82
	calculus	517.8

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Variation, evolution 575.2
in animals, phys. zoöl. 591.15
of compass 522.76
elements of orbit 521.34
Variations, calculus of 517.4
of animal heat physiol. 612.55
longitude and latitude 521.28
right ascen. and declin. 521.27
piano music 786.48
Variolation contagious diseases 614.472
Varioloid diseases 616.912
Varnish-making air pollution 614.736
Varnishes chemical technology 667.7
Varnishing painting 698.3
Vascular system circulatory 611.1
Vases pottery 738
Vassalage 321.3
Vassar college, colleges for women 376.8
Vatican council, 1870 infallibility 262.13
Vaticination prediction 133.3
[1] Vaucluse, France history 944.92
Vaudois Christian sects 284.4
persecution 272.3
Vaults air pollution 614.764
arch. construction 721.43
design 729.34
carved arch. dec. 729.58
disinfect. in, contag. dis. 614.48
painted arch. dec. 729.48
receiving arch. 726.8
suffocation in protection of life 614.82
Vector, equation of radius astron. 521.38
Vedas Sanskrit literature 891.2
Vedel, A. S. Danish miscellany 839.883
Vega, Garcilaso de la Span. poetry 861.31
Carpio, L. F. de " drama 862.31
Vegetable anatomy, comparative 581.4
descriptive 581.7
chemistry 547
diet hygiene 613.26
drugs mat. med. 615.32–3
fats chem. tech. 665.3
food hygiene 613.26
forms dec. in relief 729.51
painted dec. 729.41
irritants poisons 615.93
oils chem. tech. 665.3
parasites, diseases 616.969
physiology 581.1
substances, analysis of 543.8
trades air pollution 614.73
world botany 580
Vegetables, agriculture 635
canned, inspection of, public health 614.3
Vegetables, fresh, inspection of pub. health 614.316
preserva. of chem. tech. 664.8
Vegetarianism hygiene 613.26
Vegetation botany 580
Vehmgericht criminal law 343.43
Vein, fluid hydraulics 532.52
Veins, administration of medicine by 615.65
anatomy 611.14
diseases 616.14
geology 551.88
mineral economic geology 553.19
Veldeke, H. van Dutch poetry 839.3112
Vellum, books printed on rarities 096
Velocipede 796
Velocity light optics 535.2
liquids hydraulics 532.57
sewers sanit. eng. 628.219
sound acoustics 534.2
tide wave tides 525.65
[1] Vendée, France history 944.61
war in French history 944.042
Vendors law 347.7
Veneering architectural decor. 729.6
Venereal diseases 616.95
Venery, excessive, effects of 616.984
Venesection therapeutics 615.811
Venetia ancient history 937.3
[1] modern " 945.3
[1] Venezuela " 987
[1] Venice " 945.3
travels 914.53
Venous blood physiology [illegible]
thrombosis puerperal di[illegible]
Vent[illegible]ting scie[illegible]
Vent[illegible]tion bu[illegible]
li[illegible]
V[illegible]to[illegible]

Topics in black face type are sub-divid[illegible] end

Versailles description 914.436
[3] Versification. English prosody 426.2
Version obstetric operations 618.82
Vertebrates **paleontology** **566**
zoölogy **596**
Vertical, prime astronomy 522.47
Vertigo diseases 616.841
Vesicular affections of skin 616.52
Vespers Anglican ritual 264.034
music **783.2**
Vessel, J. H. Danish poetry 839.8153
Vestments 247.7
Vesuvius volcanoes 551.21
Veterinary medicine **619**
sanitation, pub. health **614.9**
Viaducts **bridges** **624**
Viaticum sacrament 265.7
Viau, Théophile de French satire 847.41
Vibration acoustics 534.5
dynamics 531.32
Viburnum uterines 615.766
Vicarious secretion physiology 612.49
Vice **administration** **351.76**
crime 343
Vicente, Gil Spanish drama 862.22
Vices **ethics** **170**
Victor Emanuel Italian history 945.09
Victoria, Queen English " 942.08
Scottish " 941.08
[1] Victoria, Australia " 994.5
Victorian Gothic architecture 724.4
Vienna, congress of, European hist. 940.8
internat. law 341.1
[illegible]story 943.61
[illegible]vels 914.361
[illegible] 944.63
[illegible] **760**
[illegible] 842.75
[illegible] 841.76
948.01
321.2
[illegible] **728.6**
[illegible] **854.84**
728.84
321.3
[illegible] **844.72**
[illegible] **841.25**
271
Vineyards 634
Viola **stringed instruments** 787.2
Violarieæ botany 583.135
Violins stringed instruments 787.1
Violoncello " " 787.3
Virgil Latin epic poetry 873.1
Virgin Mary Catholic doctrine 230.2
[1] Virginia, U. S. history 975.5
Virginity religious asceticism 248
Virtues **170**
Visibility of stars astronomy 523.82
Visible speech, phonology 414
Visigoths German history 943.01
Vision, disorders of, asylums for blind 362.4
diseases of eye 617.75
mental faculty 152.1
optics 535.7
Visions and dreams 135
Visitation and search internat. law 341.3
pastoral 253
Visscher, M. T. Dutch poetry 839.3133
Visual angle optics 535.7
Vital capacity respiration 612.24
force biology 577.6
functions **physiol., animal** **591.1**
human **612**
phenomena, biology **577**
statistics population 312
public health **614.1**
Vitalis Swedish satire 839.7762
Vitalism biology 577.6
Vitality zoölogy 591.139
Vitreous humor eye diseases 617.74
Vivipara generation 591.168
Vivisection **animal anatomy** **591.7**
ethics 179.4
laws, public health 614.22
Vocal culture elocution 808.5
music 784.9
hygiene, etc. 784.9
music **784**
organs, acoustics 534.7
diseases of **616.2**
human anatomy **611.2**
physiology 612.78
Vocalists' lives, singers 927.8
Vochysiaceæ **botany** 583.145
Voice **elocution** 808.5
physiol 612.78
[illegible] 784.9
language 408.91
552.22
552.2
552.22
ology 551.21
[illegible] 784.4
at the

[1] Vologda, Russia history 947.2
Voltaic electricity physics 537.5
Voltaire, F. M. A. de, French drama 842.56
fiction 843.54
Volumetric analysis chemistry 545.5
geometry 513.3
Voluntary music 786.87
Volunteers army 355
Vomiting diseases 616.33
Vondel, J. van der Dutch poetry 839.3132
Vorm, Jacob Danish poetry 839.8138
Vortex rings molecular physics 539.1
Vos, Jan Dutch drama 839.3234
[1] Vosges, France history 944.39
Vosmaer, Jacob Dutch fiction 839.3352
Voss, J. H. German poetry 831.65
Voters, qualifications 324.1
Voting suffrage 324
[3] Vowels English language 421.2
Vows ascetism 248
Voyages, Arctic 919.8
round the world 910.4
scientific 508.3
travels adventures 910.4
[3] Vulgarisms English language 428.3
Vulgate Bible 220.47
Vulva anatomy 611.67
diseases of women 618.16
Wace, Robert French poetry 841.12
Wadmar, J. A. Swedish satire 839.7761
Wadskjær, K. F. Danish poetry 839.8146
Wagenaar, Jan Dutch miscellany 839.384
Wager of battle legal antiquities 340.3
Wagers ethics 175.9
Wages, labor and, polit. economy 331
Wagnerian music 782.2
Wagons manufacture 684
Wake funeral customs 393.9
Wakefulness insomnia 613.86
[1] Waldeck, Germany history 943.57
Waldenses persecutions 272.3
sects 284.4
Waldflute wind instruments 788.5
Waldis, B. German poetry 831.42
[1] Wales history 942.9
[4] language 491.66
Walking animal locomotion 591.47
pedestrianism 613.72
Walks landscape gardening 713
Wall papers, inspection of public health 614.37
street banking 332.6
[1] Wallachia history 949.8
[4] Wallachian language 459
literature 859
Waller, E. English poetry 821.44
Wallin, J. O. Swedish poetry 839.7162
Walls, arch. construction 721.2
design 729.31
incrusted exterior arch. dec. 729.61
mosaic " " 729.72
painted, arch. decoration 729.49
Walpole, H. English letters 826.61
Walther Vogelweide, Germ. poetry 831.27
Waltz music 786.46
Waltzing amusements 793
ethics 175.3
Wandering Jew legends 398.2
War captures law 341.3
cause of " 341.3
civil U. S. history 973.7
customs of 399
department, U. S. 353.6
ethics 172.4
French and Indian, U. S. history 973.26
law of 341.3
Mexican " " 973.62
ministries of architecture 725.12
of 1812, U. S. history 973.52
Roses English " 942.04
Revolutionary U. S. history 973.3
science and art of 355
woman in woman's position 396.9
Ward, Artemus American humor 817.37
E. English humor 827.51
N. American satire 817.11
Ware, W: " fiction 813.25
Warehouses architecture 725.35
bonded architecture 725.14
Warm baths architecture 725.73
hygiene 613.42
Warming building 697
sanitary engineering 628.8
science 536.83
Warner, C: D. Am. satire 817.41
Warnings omens 133.3
Warped surfaces descr. geometry 515.17
Warrants law 343
Warren, M. Am. drama 812.11
[1] Co., N. Y. history 974.751
[1] Warsaw history 947.5
travels 914.75
Warts skin diseases 616.54
[1] Warwick, England history 942.48
Washing laundry 648
[1] Washington, G., presidency of 973.41
D. C. history 975.3
travels 917.53
[1] Co., N. Y. history 974.749
[1] Territory history 979.7
treaty of 341.273
Washingtonian homes architecture 725.65

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Wasps **insects** 595.79
Waste and repair **biology** 577.2
repair of animal physiology 591.136
Wastes, disposal of sanitation 628.54
Watch-making 681
Watches horology 529.78
manufacture 681
Water, artificial ponds, etc. 714
as a beverage hygiene **613.31**
blast 532.85
chemical analysis 543.3
closets air pollution 614.764
house drainage 628.6
colors 751
courses, natural, hygiene of 614.772
cure therapeutics 615.853
diuretics 615.761
engines mechanical eng. **621.2**
falls physical geography 551.48
force of engineering 627.1
gas heating 697.6
geological action 551.92
hydraulics **532**
inorganic chemistry 546.11
meteorology 551.57
microscopic analysis, hygiene 613.33
of crystallization chemistry 541.8
physical geography 551.4
pollution from cemeteries 614.651
power mechanical eng. **621.2**
pressure engines **621.25**
products 338.3
ram hydraulics 532.83
supply, canal engineering 626.2
sanitary " **628.1**
tables walls 721.25
tight linings and dams, drain. 622.56
towers fire extinction 614.846
travel protection of life 614.864
vapor, exhalation, physiology 612.25
ways administration 351.813
wheels, mech. engineering **621.21**
hydraulics 532.84
works **628.1**
city administration 352.6
[1] Waterford, Ireland history 941.91
Watering place buildings arch. 725.75
places hygiene 613.12
Waterloo, battle of French history 944.05
Waters, carbonated hygiene 613.38
mineral adulterations 614.348
hygiene 613.38
therapeutics 615.79
Wave theory optics 535.1
Waves, theory of hydraulics 532.59
Wax flowers 746
[1] Wayne Co., N. Y. **history** 974.787
Wealth and rank, social ethics 177.5
distribution of
political econ. **331**
Weapons bronze age 571.35
customs 399
military science 355
public safety 351.753
stone age 571.25
Weather **meteorology** **551.5**
Weaving 677
Webster, D. Am. oratory 815.27
J: English drama 822.36
N. Am. essays 814.22
Wedding customs 392.5
Wedge physics 531.86
Wedgewood ware pottery 738
Weeds economic botany 581.6
pests 632
Weems prehistoric arch. 571.82
Weighing and measuring chem. 542.3
Weight of earth 525.11
Weights and measures 389
administration 351.821
atomic, theor. chemistry 541.2
Weirs hydraulics 532.53
Weise, C. German drama 832.53
Welfare, public administration **351.8**
Welhaven, J. S. C. Danish essays 839.8465
Well water impurities hygiene 613.32
Wellesley college, colleges for women 376.8
Wells physical geography 551.49
sunken foundations 721.17
water supply 628.11
Welsh Calvinistic Methodists sects 287.3
[1] **history** **942.9**
[4] **language** **491.66**
literature **891.66**
travels **914.29**
Wenceslaus German history 943.027
Wennerberg, Gunnar, Swedish satire 839.7765
Wens diseases 616.993
Were-wolves folk-lore 398.3
Wergeland, Henrik Danish poetry 839.8165
Werner, F. L. Z. Germ. drama 832.67
Wernicke, Christian German satire 837.53
Wesleyan Methodists sects 287.1
[1] West Australia history 994.1
[1] Coast, Africa " 968.8
[1] Indies " 972 9
[1] Meath, Ireland " 941.81
[1] Point, N. Y. " 974.731
academy 355.07
[1] Prussia history 943.12
travels 914.312
[1] Russia history 947.6

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

West Russia travels 914.76
U. S., the " 917.8
[1] Virginia 975.4
[1] Westchester Co., N. Y. history 974.727
[1] Western Islands Azores " 946.99
or Rom. Catholic church 282
[1] **States mountain 978**
[1] **Pacific 979**
Westminster Assembly's catechism 238.5
confession creeds 238.5
[1] Westmoreland, England history 942.88
[1] Westphalia, Germany " 943.56
Wet method, qualitative chem. anal. 544.1
quantitative " " 545.2
Wetterberg, K: A. Swedish fiction 839.7364
[1] Wexford, Ireland history 941.88
Whale fisheries 639
zoölogy 599.5
Wharf boats architecture 725.34
houses " 725.34
Wheat adulterations 614.312
agriculture 633
trade, agricul. products 338.1
Wheel and axle, physics 531.82
cycling amusements 796
ethics 175.7
Wheels, cog mechanical eng. 621.83
railroad engineering 625.2
water hydraulics 532.84
mechanical eng. 621.21
wooden, manufactures 674
Whigs, Eng. political parties 329.942
U. S. " " 329.4
Whipple, E. P. Am. essays 814.35
Whirlpools ocean currents 551.47
Whirlwinds meteorology 551.51
Whiskey chemical technology 663.5
insurrection, Pa., hist. 974.8
Whist games 795
White, H: K. English poetry 821.68
White hair dermatology 616.54
lead manufacture 667.6
swelling diseases 616.72
Whitehead, P. English satire 827.63
Whitman, Walt American poetry 811.38
Whittier, J: G. " " 811.36
Wholesale stores architecture 725.21
Whooping cough pathology 616.204
public health 614.543
[1] Wicklow, Ireland history 941.84
Wieland, C. M. German fiction 833.61
Wife's duties ethics 173.3
Wigglesworth, M. American poetry 811.13
[1] Wight, Isle of history 942.28
travels 914.228
[1] Wigton, Scotland history 941.49
Wigwams architecture **725.92**
Will metaphysics 159
of God ethics 171.1
theology 234.9
William I., Conqueror, Eng. history 942.021
II., " " 942.022
III., " " 942.068
IV., " " 942.075
I., German " 943.083
of Holland, " " 943.025
Wills law 347.6
Wilmot proviso U. S. history 973.61
[1] Wilts, England history 942.31
Wind and current charts 551.46
instruments music 788
mills air engines 621.45
Window gardens 716.4
Windows, arch. construction 721.8
design 729.38
dormer, arch. construct. 721.55
stained glass, arch. decoration 729.8
Winds meteorology 551.51
[1] Windward Islands history 972.98
Wine adulterations 614.342
at table temperance 178.3
domestic economy 643
manufacture 663.2
temperance 178
Winged shells, zoölogy 594.4
Wings animal locomotion 591.47
Winter, W: American poetry 811.44
Winther, Christian Danish fiction 839.8363
Wire lath masonry 693.66
Wires, telegraph communication 654.4
Wirt, William Am. oratory 815.23
[1] Wisconsin, U. S. history 977.5
Wisdom apocrypha 229.3
divine, doct. theology 231.6
Wiselius, S: I., Dutch drama 839.3251
[5] **Wit English humor 827**
Witchcraft 133.4
Witches persecutions 272.8
Wither, G: English satire 827.41
Witnesses evidence 347.94
Wives' duties, family ethics 173.3
Wolcott, J: English satire 827.65
Wolff German philosophy 193.9
Wolfram v. Eschenbach, Germ. poet. 831.24
Wollf, E. B. Dutch fiction 839.3341
Woman customs 396
education 376
suffrage 324.3
political parties 329.83
woman's position 396.3
Woman's position and treatment 396

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

		West Year
Woman's rights	**woman's position**	396.2
Womb	anatomy	611.66
Women as teachers		371.18
costume of		391.2
diseases of		**618**
duties of	**family ethics**	**173**
	social "	**177**
labor of	political econ.	331.4
lives of	collections	920.7
Women's rights		396.2
work in church		259
Wood and glass structures	arch.	721.99
iron structures	"	721.95
building material		691.1
carving		736
city houses, detached		728.39
party-walls		728.33
semi-detached		728.36
construction, general, carpent.		694.1
engraving		761
implements, manufactures		674
prehist. arch.		571.51
pavements	road engineering	625.8
village houses	architecture	728.66
partly, arch.		728.65
work, joints of, carpentry		694.2
working mills	architecture	725.44
Wooden ceilings	arch. construction	721.71
doors "	"	721.81
floors "	"	721.61
lath	masonry	693.65
piers and columns, arch.		721.31
carpentry		694.4
roofs	arch. construction	721.51
walls "	"	721.21
Woods	economic botany	581.61
forestry		634.9
Wool, agriculture		636.3
duties on		337.5
dyeing	chemical technology	667.2
linings, mineral	masonry	693.67
manufactures		677
operatives' occupation	hyg.	613.63
Woolen clothing	"	613.481
mills	architecture	725.41
[1] Worcester Co., England,	history	942.47
[1] Mass.	"	974.43
Word methods, elemen. education		372.4
[3] **Words**	**etymology**	**422**
slang		427.09
[3] use and abuse, Eng.		428.3
[3] vulgarisms	"	428.3
Wordsworth, W: English poetry		821.71
Work houses, asylums		362.5
mechanics		531.4
parish, societies for		256
Work, Sunday		263.5
Working classes	**political econ.**	**331.8**
Workingmen's clubs	architecture	725.93
Workmen, libraries for, library econ.		027.6
Workshop receipts, chem. tech.		**660**
Workshops, disinfection, in cont. dis.		614.48
World, atlases of		**912**
voyages round		910.4
World's fairs		606
plurality of		523.13
Worm, Ole	Danish miscellany	839.883
Worms	**diseases**	**616.962**
zoölogy		595.1
Worship	administration	351.857
family		249
of animals	idolatry	290
public		264
Worsteds	manufactures	677
Wounded, hospitals for		362.1
	architect.	**725.51**
Wounds, reparation of, animal phys.		591.179
	surgery	**617.14**
Wrecking and life-saving		656
Wrestling		796
Writing		652
books		372.5
elementary education		372.5
inks	chemical technology	667.4
machine		652
of history		907
short hand		**653**
Writs	law	347.93
Written examinations	education	371.27
Wrongs, torts, law		347.5
Wrought iron structures	arch.	721.92
[1] Wurtemburg, Germany	history	943.47
Wyatt, T:	English poetry	821.27
Wycherly, W: "	drama	822.44
[1] Wyoming, Co., N. Y.	history	974.793
[1] U. S.	history	978.7
massacre	Penn. history	974.8
Xenocrates	ancient philosophers	184.3
Xenophanes	early Greek philos.	182.3
Xenophon	Greek literature	888.3
Ximenes	Catalan miscellany	849.9814
Xylography		761
Xylophone	musical instr.	789.6
Xyrideæ	botany	584.36
Yacht-building		699
Yachting		797
Yale college		378.746
Yañez Ruy	Spanish poetry	861.15
Yards, stock	architecture	725.27
Yarns	manufactures	677
[1] Yates Co., N. Y.	history	974.782
Year books	**statistics**	**310**

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

Year books see subject
solar chronology 529.2
Yeast adulterations 614.315
botany 589.91
chemical technology 664.6
domestic economy 641
organic chemistry
Yellow fever diseases 616.928
protective inoculation 614.476
public health 614.541
[1] Yellowstone Park description 917.87
[1] Yemen, Arabia history 953.3
[1] Yonne, France " 944.41
York, house of English history 942.04
[1] Yorkshire, England history 942.74
[1] Yosemite, Cal. description 917.94
Young, E: English poetry 821.55
Young, counsels to ethics 173.6
education of elemen. educa. 372
men, advice to, business ethics 174
Men's Christian Associat'n 267.3
women, advice to, social ethics 177
Y. M. C. A. buildings architecture 726.9
Yriarte, Tomás de Spanish poetry 861.45
Yttrium inorg. chem. 546.61
Yucatan, Mexico architecture 722.9
[1] history 972.6
travels 917.26
[1] Zacatecas, Mexico history 972.4
Zambezi travels 916.79
Zanella, Giacomo Italian poetry 851.82
Zanotti, F. M. " essays 854.58
[1] Zanzibar, Africa history 967.8
Zealand, province of history 949.2
Zechariah Bible 224.98
[4] Zend Avesta Persian lit. 891.52
Zend Avesta religion 295
language 491.52
Zenith telescope astronomy 522.43
Zenithal projections geodesy 526.84
Zeno, Apostolo Italian drama 852.55
early Greek philosophers 182.3
stoic philosopher 188.1
Zephaniah Bible 224.96
Zesen, P. von German poetry 831.56
Zinc, inorganic chemistry 546.47
metallurgy 669.5
ores economic geology 553.45
oxide of protect. exter. agents 615.776
roofs building 695.4
Zirconium 546.83
Zither music 787.8
Zoantharia radiates 593.63
Zodiac astronomy 523.29
Zodiacal light " 523.59
Zoölogical gardens 590.7
architecture 727.5
Zoölogy 590
Zoöphytes 593
Zoosporeæ botany 589.67
Zorilla y Moral, José, Spanish poetry 861.53
Zoroaster Parseeism 295
Zouaves military science 355
Zschokke, J. H. D. German fiction 833.71
[1] Zululand history 968.3
Zumbini, Bonaventura, Italian essays 854.87
Zunis Indians 970.3
[1] Zurich history 949.4
travels 914.94
Zwinglian Protestant sects 284.2
Zygomycetes fungi 589.28
Zygophylleæ botany 583.221
Zygosporeæ algæ 589.6
lichens 589.27

Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

INDEX TABLES.

Table 1. — Geographical Divisions.

The following subjects may all be divided geographically by adding the geographical numbers: i. e., 4, Europe; 5, Asia; 6, Africa; 7, North America; 8, South America; 9, Oceanica. These can be farther subdivided as minutely as wished, like the history, 940–999, which see for full table; e. g.: 42, England; 73, United States; 944, New South Wales; 7471, New York City, etc.

The geographical numbers are formed by omitting initial 9 from the historical numbers given in tables 930–999, and these figures are simply affixed to the number given in the table below; e. g.: Atlases are numbered in the table below 912; in the historical tables France is numbered 944; omitting initial 9 and affixing the remaining figures, 44, to 912 gives 912.44, Atlases of France; New South Wales is 994.4; omit initial 9 and affix the 944 to 912 and the result is 912.944, Atlases of New South Wales. In the table below, Mints are 332.49; in the historical tables England is 942; adding these together (omitting the 9) gives 332.4942, Mints in England. Colleges are 378; N. Y. State, 974.7; add these together (omitting the 9) and the result is 378.747, Colleges in N. Y. State.

A number of unimportant topics, e. g. minor religious sects, which may be divided geographically, are omitted from this table.

373.	Academies, private.
379.	" public.
354.	Administration (except U. S.).
923.5	" biography.
923.5	Admirals' lives.
283.	American P. E. church.
922.3	" " " biography.
911.	Ancient geography.
283.	Anglican church.
922.3	" " biography.
591.9	Animals, geographical distribution.
328.	Annals, legislative.
913.	Antiquities, archæology.
922.3	Archbishops' lives, Anglican.
922.2	" " Roman catholic.
720.9	Architecture, history of.
923.5	Army biography.
709.	Art, history of.
362.9	Asylums.
027.2	Atheneum libraries.
912.	Atlases.
923.3	Bankers' lives.
286.1	Baptist, Calvinistic.
286.2	" Free will.
286.3	" Seventh day.
922.6	" lives.
016.9	Bibliography of history.
015.	" special countries.
920.0	Biography of countries, collective; also religious biography 922.2 to 922.8, and biography of sociology 923.1 to 923.8.
922.3	Bishops' lives, Anglican and P. E.
922.2	" " Roman catholic.
655.4	Bookselling, history of.
581.9	Botany, geographical.
284.2	Calvinist church.
922.4	" lives.
923.3	Capitalists' lives.
922.2	Cardinals' "
282.	Catholic church.
922.2	" " biography.
284.8	" Old, church.
361.9	Charitable associations.
283.	Church, Episcopal.
922.3	" " biography.
27	" history.
027.3	Circulating libraries.
027.4	City libraries, public.
923.5	Civil service biography.
027.2	Club libraries.
367.9	Clubs, social.
332.49	Coinage, history of.
027.7	College libraries.
378.	Colleges.
325.	Colonies.
923.8	Commerce, biography of.
285.8	Congregational church.
922.5	" " biography.
342.	Constitutional law.
922.4	Continental Protestants' lives.
655.6	Copyright.
343.	Criminal law.
923.4	Criminals' lives.
614.12	Deaths and death-rates.
91	Description, geographical.
91	Directories.
591.9	Distribution of animals, geog.
549.9	" " minerals "
581.9	" " plants "
572.9	" " races "
284.1	Dutch reformed church (except America).
285.7	Dutch reformed church (in America).
922.4	Dutch reformed church biography.
27	Ecclesiastical history.
378.	Education, college.
372.9	" elementary.
370.9	" history of.

373. Education, intermediate (private).
376.9 " of woman.
373. " private academies.
379. " public school.
923.7 Educators' lives.
372.9 Elementary education.
325.1 Emigrants.
923.1 Emperors' lives.
027.4 Endowed libraries.
373. " schools.
628.09 Engineering, sanitary.
283. Episcopal church.
922.3 " " biography.
287.6 " Methodist, church.
922.7 " " " biog.
572.9 Ethnology.
027.1 Family libraries.
376.9 Female education.
336. Finance.
923.3 Financiers' lives.
349. Foreign law.
327. " relations.
354. " states, administration.
560.9 Fossils, geographical distribution.
027.9 Free news rooms.
027.4 " public libraries.
289.6 Friends or quakers.
922.8 " " " biography.
027.0 General libraries, hist., reports, etc.
581.9 Geographical botany.
591.9 " dist. of animals.
560.9 " " " fossils.
549.9 " " " minerals.
572.9 " " " races.
91 Geography, description.
911. " historical.
912. " maps.
55 Geology.
724.3 Gothic revival, architecture.
724.4 " Victorian, "
354. Government admin. (except U. S.).
027.5 " libraries.
352.0 " local.
923.2 Governors' lives.
724.2 Grecian revival, architecture.
614.09 Health, public.
911. Historical geography.
016.9 History, bibliography of.
362.9 Hospitals.
284.5 Huguenots.
922.4 " biography.
613.09 Hygiene.
325. Immigration.
338.9 Industrial legislation.
607. Institutes of technology.
368.9 Insurance.
373. Intermediate education.
923.4 Judges' lives.
923.1 Kings' lives.
923.4 Law biography.
342. " constitutional.
343. " criminal.
349. " foreign.
338.9 Legislation, industrial.
328. Legislative bodies and annals.
923.2 Legislators' lives.
027.0 Libraries, general, histories, rep., etc.
352.0 Local government.
284.1 Lutheran church.
922.4 " " biography.
912. Maps.
923.8 Merchants' lives.
287.6 Methodist episcopal.
922.7 " biography.
553.70 Mineral waters.
549.9 Minerals, geographical distribution.
332.49 Mints, history.
780.9 Music, history of.
015. National bibliography.
920.0 " biography.
923.5 Naval "
724.6 Néo-Grec architecture.
027.9 News rooms, free.
923.2 Nobles' lives.
560.9 Paleontology.
027.8 Parish libraries.
328. Parliamentary bodies.
329.9 Parties, political (except U. S.).
923.6 Philanthropists' lives.
912. Plans of cities, etc.
581.9 Plants, geographical distribution.
363.9 Political associations.
923.3 " economy, biography.
329.9 " parties (except U. S.).
923.2 " science, biography.
320.9 " " history of.
923.2 Politicians' lives.
312. Population, statistics of.
373. Preparatory schools.
285.1 Presbyterian church in America.
285.2 " " " Gr. Britain.
922.5 " " biography.
923.1 Presidents' lives.
655.1 Printing, history of.
365.9 Prisons.
027.1 Private libraries.
373. " schools.
027.2 Proprietary libraries.
283. Protestant Episcopal church.
922.3 " " " biog.
922.4 Protestants, Continental, lives.
614.09 Public health.

027.4	Public libraries.
379.	" school system.
015.	Publishers' lists.
655.4	Publishing, history of.
289.6	Quakers.
922.8	" lives.
724.5	Queen Anne architecture.
923.1	Queens' lives.
572.9	Races of men.
923.8	Railroad officials' lives.
027.4	Rate supported libraries.
027.9	Reading rooms, free.
364.9	Reformatory institutions.
284.1	Reformed church.
285.7	" (Dutch) church in Amer.
922.4	" " " biography.
327.	Relations, foreign.
27	Religious history.
724.1	Renaissance architecture.
282.	Roman Catholic church.
922.2	" " " biography.
724.8	Romanesque revival, architecture.
923.1	Rulers, Chief, lives.
628.09	Sanitary engineering, history, etc.
284.7	Scandinavian church.
922.4	" " biography.
027.8	School libraries.
923.7	" officers' biography.
373.	Schools, private.
379.	" public, system.
508.	Scientific travels.
366.9	Secret societies.
373.	Seminaries, private.
923.5	Service, Civil, biography.
286.3	Seventh day baptist.
922.6	" " " biography.
289.8	Shakers.
922.8	" biography.
653.09	Shorthand, history.
326.9	Slavery, history.
367.9	Social clubs.
366.9	Societies, secret.
027.2	Society libraries.
923.5	Soldiers' lives.
379.	State education.
027.5	" libraries.
923.2	Statesmen's lives.
31	Statistics.
312	" of population.
027.3	Subscription libraries.
324.	Suffrage.
027.8	Sunday school libraries.
289.4	Swedenborgians.
922.8	" biography.
284.7	Swedish church.
922.4	" " biography.
724.7	Swiss architecture.
923.7	Teachers' lives.
607.	Technical schools.
724.7	Timber architecture.
027.4	Town libraries, public.
91	Travel, description.
508	" scientific.
341.2	Treaties, texts and history.
724.4	Tudor architecture.
288.	Unitarian church.
922.8	" biography.
289.1	Universalist church.
922.8	" " biography.
378.	Universities, history, reports, etc.
027.7	University libraries.
724.4	Victorian Gothic, architecture.
324.	Voting.
922.4	Waldenses biography
553.70	Waters, mineral.
376.9	Woman's education.
591.9	Zoölogy, geographical.

Table 2.— Form Divisions.

The form distinctions 01, Philosophy; 02, Compends; 03, Dictionaries; 04, Essays; 05, Periodicals; 06, Societies; 07, Study and Teaching; 08, Polygraphy, Collective Works; 09, History, can be used wherever needed if these numbers are not already employed with other significations. They have been printed in the full tables only where they seemed specially needed.

The following is an alphabetical list of these divisions, and the figures prefixed should be *added* to the number of the subject to be sub-divided; e. g. Disputations on Chemistry in general 540.4; Dictionaries of Mining 622.03.

06	Academies.
06	Acts of societies.
04	Addresses.
06	Associations.
02	Charts. Tabular views. Compends.
08	Collected works.
08	Collections.
02	Compends.
03	Concordances.
03	Cyclopedias.
03	Dictionaries.
04	Discourses.
04	Disputations.
07	Education.
03	Encyclopedias.
04	Essays.
06	Exhibitions.
08	Extracts.
09	History.
04	Lectures.
04	Letters.
03	Lexicons.
08	Libraries, collections, series.
05	Magazines.
02	Manuals.
08	Maxims.
01	Methods.
08	Miscellanies.
07	Museums.
02	Outlines.
04	Papers.
05	Periodicals.
01	Philosophy.
08	Polygraphy.
06	Reports of societies.
05	Reviews.
07	Schools.
07	Seminaries.
06	Societies.
07	Study.
02	Systems.
07	Teaching.
01	Theories.
04	Tracts.
07	Training schools.
06	Transactions.
08	Treatises.
01	Utility.

Table 3. — Languages.

The table below includes all languages mentioned in the classification, except those in 494—499, not yet sub-divided.

Any language in this table may be sub-divided like 420, English.

Any philological topic in the index may be transferred to another language by replacing the initial figures of the language, as found in this table, by those of the second language also found here; e. g., Syntax, English language, in the index is 425.2. In this table, English is 42 and French is 44; replacing the 42 by 44 gives 445.2 French syntax. Hebrew is 492.4, and Hebrew syntax is 492.452.

A third way to sub-divide the language is to prefix the language figures as given in this table to the philological numbers given in Table 4.

All three methods give the same result.

491.58	Afghani.
492.8	Amharic.
429.	Anglo Saxon.
492.7	Arabic.
492.1	Aramaic.
491.54	Armenian
491.68	Armorican.
492.19	Assyrian.
491.52	Avestan, Zend.
492.19	Babylonian.
491.52	Bactrian, Old.
491.68	Bas Breton.
491.69	Basque.
491.44	Bengali.
491.86	Bohemian.
491.68	Breton, Bas.
491.81	Bulgarian.
492.6	Carthaginian.
449.9	Catalan.
492.2	Chaldee.
491.81	Church Slavonic.
493.2	Coptic.
491.67	Cornish.
491.83	Croatian.

492.19	Cuneiform.
491.65	Cymric Group.
491.66	" or Welsh.
439.8	Danish.
439.4	Deutsch, Platt.
439.3	Dutch.
493.1	Egyptian, Old.
42	English.
427.01	" Old.
491.61	Erse, Gadhelic group.
491.63	" Gaelic.
492.8	Ethiopic.
477.5	Etruscan.
439.6	Faroese.
439.3	Flemish.
44	French.
447.01	" Old.
439.2	Frisian.
491.61	Gadhelic Group.
491.63	Gaelic or Scotch.
43	German.
437.02	" Middle High.
437.01	" Old High.
439.9	Gothic.
48	Greek.
489.	" Modern.
491.47	Gujerati.
492.4	Hebrew.
492.9	Himyaritic.
491.43	Hindi.
491.1	Hindu languages.
491.43	Hindustani.
491.53	Huzwaresh.
439.6	Icelandic.
491.1	Indic Group.
491.62	Irish.
45	Italian.
492.4	Jewish.
491.83	Kroatian.
491.57	Kurdish.
47	Latin.
479.	" Medieval.
491.93	Lettish.
491.92	Lithuanian.
491.93	Livonian.
439.3	Low Dutch.
479	" Latin.
491.64	Manx.
491.46	Marathi.
479.	Medieval Latin.
437.02	Middle High German.
489.	Modern Greek.
491.55	" Persian.
491.87	Moravian.
492.19	Nineveh Cuneiform.
439.6	Norse, Old.
439.8	Norwegian.
491.52	Old Bactrian.
493.1	" Egyptian.
427.01	" English.
447.01	" French.
437.01	" High German.
439.6	" Norse.
491.51	" Persian.
491.91	" Prussian.
439.2	" Saxon.
491.45	Orissa.
491.56	Ossetic.
491.3	Pali.
491.42	Panjabi.
491.53	Pehlevi.
491.55	Persian, Modern.
491.51	" Old.
492.3	Peshito.
492.6	Phenician.
439.4	Platt Deutsch.
491.89	Polabian.
491.85	Polish.
469.	Portuguese.
491.2	Prakrit.
449.	Provençal.
491.91	Prussian, Old.
491.58	Pushtu.
459.9	Rhaeto-Romansch.
489.	Romaic.
459.	Roumanian.
459.9	Rumansh.
491.7	Russian.
491.79	Ruthenian.
492.5	Samaritan.
491.2	Sanskrit.
429.	Saxon, Anglo-.
439.2	Saxon, Old.
439.5	Scandinavian languages
491.63	Scotch or Gaelic.
491.82	Servian.
491.41	Sindhi.
491.48	Singhalese.
491.81	Slavonic, Church
491.87	Slovakian.
491.84	Slovenian.
491.88	Sorbian.
46	Spanish.
439.7	Swedish.
492.3	Syriac.
491.45	Uriya.
459.	Wallachian.
491.66	Welsh.
491.52	Zend.

Table 4.—Philological Divisions.

All the languages in Table 3 can be divided like 420, English, by adding the figures below; e. g.:

English orthography		421
Provençal	"	449.1
Arabic	"	492.71
Gaelic	"	491.631
Syntax of	English verbs	425.8
"	Modern Greek verbs	489.58
"	Danish "	439.858
"	Armenian "	491.5458
Inflection of	English nouns	425.15
"	Anglo-Saxon nouns	429.515
"	Hebrew "	492.4515
"	Welsh "	491.66515

18	Abbreviations.
12	Ablaut.
16	Accent, pronunciation.
61	" prosody.
51	Accidence.
25	Accusative, etymology.
55	" syntax.
26	Adjectival forms, derivation.
516	Adjectives, inflection.
56	" syntax.
29	Adverbs, derivation.
59	" syntax.
22	Affixes, derivation.
11	Alphabet.
21	Analogy.
53	Analysis, grammar.
67	Antistrophe, prosody.
28	Aorist, etymology.
58	" syntax.
7	Archaisms.
709	Argot.
53	Arrangement of words and clauses.
56	Articles, syntax.
12	Aspirates.
28	Augment, etymology.
83	Barbarisms.
83	Blunders.
25	Case endings, derivation.
55	Cases, syntax.
87	Chrestomathies.
53	Clauses, arrangement of.
516	Comparison, inflection.
26	Comparison, signs of, derivation.
54	Conditional sentences.
518	Conjugation.
29	Conjunctions, etymology.
59	" syntax.
28	Conjunctive mood, etymology.
58	" " syntax.
13	Consonants.
12	Crasis.
25	Dative case, etymology
55	" " syntax.
515	Declension of nouns.
2	Derivation of words.
7	Dialects.
3	Dictionaries.
25	Diminutives, derivation.
12	Diphthongs.
17	Diplomatics.
701	Early forms of language.
86	Elementary readers.
53	Ellipsis.
52	Enallage.
83	Errors of speech.
2	Etymology, derivation.
51	" inflection.
89	Examination papers.
63	Feet, prosody.
64	Figures of prosody.
82	First lessons.
63	Foot, prosody.
24	Foreign elements.
25	Gender, etymology.
25	Genitive case, etymology.
55	" " syntax.
7	Glossaries, dialects.
3	" language.
83	Grammatical errors.
65	Hexameters.
64	Hiatus.
54	Hypothetical sentences.
31	Idioms.
88	Individual authors, texts
28	Infinitive mood, etymology
58	" " syntax.
51	Inflection.
516	" of adjectives.
515	" " nouns.
517	" " pronouns.
518	" " verbs.
17	Inscriptions.
29	Interjections, etymology.
59	" syntax.
29	Interrogatives, etymology.
59	" syntax.
21	Laws of language.
1	Letters, alphabet.

3 Lexicography.
3 Lexicons.
17 Manuscripts.
65 Meters, prosody.
28 Moods, signs of, derivation.
58 " syntax.
52 Morphology.
25 Noun forms, derivation.
515 Nouns, inflection.
55 " syntax.
25 Number, signs of, derivation.
701 Old forms of language.
21 Origin of language.
15 Orthoëpy.
1 Orthography.
17 Palæography.
52 Parsing.
29 Particles, derivation.
59 " syntax.
27 Personal pronouns, derivation.
14 Phonetic spelling.
82 Phrase book.
27 Possessive pronouns, derivation.
57 " " syntax.
22 Prefixes, derivation.
29 Prepositions "
59 " syntax.
27 Pronominal forms, derivation.
517 Pronouns, inflection.
57 " syntax.
15 Pronunciation.
82 Prose composition.
6 Prosody.
7 Provincialisms.
19 Punctuation.
61 Quantity, prosody.
86 Readers, elementary.
87 " selections.
23 Reduplication, derivation.
27 Relative pronouns, "
57 " " syntax.
66 Rhymes, prosody.
66 Rhyming dictionary.
8 School books and texts.
87 Selections, readers.
54 Sentences of particular form.
709 Slang.
81 Spelling books.
14 " reform.
67 Strophe, prosody.
22 Suffixes, derivation.
4 Synonyms.
52 Syntax.
28 Tense signs, derivation.
58 " syntax.
8 Text books.
68 " " for writing verse.
88 Texts of individual authors.
12 Umlaut.
83 Use of words.
28 Verbal forms, derivation.
518 Verbs, inflection.
58 " syntax.
68 Verse, text books for writing.
62 Versification.
28 Voice signs, derivation.
12 Vowels.
83 Vulgarisms.
53 Words, arrangement of.
2 " etymology.
83 " use of.

Table 5. — Literatures.

The form divisions of English literature: 1, Poetry; 2, Drama; 3, Fiction; 4, Essays; 5, Oratory; 6, Letters; 7, Satire and Humor; 8, Miscellany; may be used to sub-divide any of the languages in the following tables; and any division of English literature in the index referring to this table may be used in sub-dividing another literature, by replacing the initial figures 82 (denoting English) by the figures of the 2d language as given in this table.

Thus Ballads, English literature in the index are 821.04 and in this table Spanish is 86, therefore 861.04 is Spanish ballads; 891.7 is Russian and 891.7104 is Russian ballads.

While this minute division is possible, it is not expedient in all cases: e. g. Icelandic literature will contain little except in one or two of these divisions and a special arrangement similar to 829 Anglo-Saxon is much more convenient.

891.58	Afghani.
892.8	Amharic.
892.7	Arabic.
892.1	Aramaic.
891.54	Armenian
891.68	Armorican.
892.19	Assyrian.
891.52	Avestan, Zend.
892.19	Babylonian.
891.52	Bactrian, Old.
891.68	Bas Breton.
891.69	Basque.
891.44	Bengali.
891.86	Bohemian.
891.68	Breton, Bas.
891.81	Bulgarian.
892.6	Carthaginian.
849.9	Catalan.
892.2	Chaldee.
891.81	Church Slavonic.
893.2	Coptic.
891.67	Cornish.
891.83	Croatian.
892.19	Cuneiform.
891.65	Cymric Group.
891.66	" or Welsh.
839.8	Danish.
839.4	Deutsch, Platt.
839.3	Dutch.
893.1	Egyptian, Old.
82	English.
891.61	Erse, Gadhelic group.
891.63	" Gaelic.
892.8	Ethiopic.
839.6	Faroese.
839.3	Flemish.
84	French.
839.2	Frisian.
891.61	Gadhelic Group.
891.63	Gaelic or Scotch.
83	Germar.
839.9	Gothic.
889.	Greek, Modern.
891.47	Gujerati.
892.4	Hebrew.
892.9	Himyaritic.
891.43	Hindi.
891.1	Hindu languages.
891.43	Hindustani.
891.53	Huzwaresh.
839.6	Icelandic.
891.1	Indic Group.
891.62	Irish.
85	Italian.
892.4	Jewish.
891.83	Kroatian.
891.57	Kurdish.
879.	Latin, Medieval.
891.93	Lettish.
891.92	Lithuanian.
891.93	Livonian.
839.3	Low Dutch.
879	" Latin.
891.64	Manx.
891.46	Marathi.
879.	Medieval Latin.
889.	Modern Greek.
891.55	" Persian.
891.87	Moravian.
892.19	Nineveh Cuneiform.
839.6	Norse, Old.
839.8	Norwegian.
891.52	Old Bactrian.
893.1	" Egyptian.
839.6	" Norse.
891.51	" Persian.
891.91	" Prussian.
839.2	" Saxon.
891.45	Orissa.
891.56	Ossetic.
891.3	Pali.
891.42	Panjabi.
891.53	Pehlevi.
891.55	Persian, Modern.
891.51	" Old.
892.3	Peshito.
892.6	Phenician.
839.4	Platt Deutsch
891.89	Polabian.
891.85	Polish.
869.	Portuguese.
891.2	Prakrit.

849.	Provençal.
891.91	Prussian, Old.
891.58	Pushtu.
859.9	Rhaeto-Romansch.
889.	Romaic.
859.	Roumanian.
859.9	Rumansh.
891.7	Russian.
891.79	Ruthenian.
892.5	Samaritan.
891.2	Sanskrit.
839.2	Saxon, Old.
839.5	Scandinavian languages.
891.63	Scotch or Gaelic.
891.82	Servian.
891.41	Sindhi.
891.48	Singhalese.
891.81	Slavonic, Church.
891.87	Slovakian.
891.84	Slovenian.
891.88	Sorbian.
86	Spanish.
839.7	Swedish.
892.3	Syriac.
891.45	Uriya.
859.	Wallachian.
891.66	Welsh.
891.52	Zend.

INDEX SUPPLEMENT

Aberration, mental obstetrics 618.76
Abstracting literary methods 029.4
Accidents, railroad 656
Accounts lib. administration 025.1
Acoustics **534**
[1]Adams co. Ill. history 977.344
travels 917.7344
[1] Ind. history 977.273
travels 917.7273
[1] Pa history 974.842
travels 917.4842
[1]Addison co. Vt. history 974.35
travels 917.435
Addresses American revolution 973.394
U.S. civil war 973.794
war of 1812 973.5294
Administrative rooms lib. bldgs 022.6
Aesthetics, literary 801
Afghani religion 299.158
African discovery of America 973.11
Agricultural exper. stations 630.7
Aids to readers 028.8
lib. administration 025.5
Alabama, admission U.S. hist. 973.54
and Kearsarge " civ. war 973.754
secession " hist. 973.713
ship " civ. war 973.757
For military history of state, see subdivisions of Special campaigns and Military history under 973.52, 973.7 and 973.89
Albany convention U.S. hist. 973.26
Albemarle, ship " civ. war 973.754
[1]Alcona co. Mich. history 977.479
travels 917.7479
Alert, ship Amer. revol. 973.353
[1]Alexander co. Ill. history 977.3999
travels 917.73999
Alexandrian Greek dialects 487.2
[1]Alger co. Mich. history 977.493
travels 917.7493
Alien act U. S. history 973.44
Allatoona, Ga. " civil war 973.7372
[1]Allegany co. Md. history 975.294
travels 917.5294
[1]Alleghany city, Pa. history 974.887
travels 917.4887
[1] co. Pa. history 974.885
travels 917.4885
Allen shorthand 653.57
[1] co. Ind. history 977.274
Allen co. Ind. travels 917.7274
[1] Mich. history 977.414
travels 917.7414
Alliance, ship Amer. revol. 973.357
[1]Alpena co. Mich. history 977.481
travels 917.7481
Alphabeting cataloging 025.3
[1]Alton, Ill. history 977.386
travels 917.7386
riot U.S. hist. 973.57
[1]Altoona, Pa. history 974.876
travels 917.4876
Amanuensis work shorthand 653.043
American auxiliaries in revol. **973.346**
civil war U. S. hist. **973.7**
copyright league 655.63
hereditary societies **369.1**
patriotic " **369.1**
prisons Amer. revol. 973.372
revolution, daughters of 369.135
sons of 369.133
Amerigo Vespucci discov. of Amer. 973.16
Amistad case U. S. history 973.57
Ancient science 502
[1]Anderson, Ind. history 977.257
travels 917.7257
André, John American revol. 973.386
Andros, Edmund U.S. col. hist. 973.24
[1]Androscoggin co. Me. history 974.18
travels 917.418
Anger ethics 179.8
Animal fats chem. technology 665.2
motors engineering 621.46
Animals diseases vet. medicine **619**
Animation, suspended medicine 616.206
[1]Annapolis, Md. history 975.256
travels 917.5256
[1]Anne Arundel co. Md. history 975.255
travels 917.5255
Anne's, Queen, war U. S. hist. 973.25
Anniversaries Amer. revol. **973.36**
Mexican war 973.626
U. S. civil war **973.76**
war of 1812 973.526
with Spain 973.896
Antarctic ocean physical geog. 551.469
Ante-Nicene church 100-325 281.3
Antietam, Md. battle U.S. civ. war 973.7336
[1]Antrim co. Mich. history 977.485

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index.

Antrim co. Mich. travels 917.7485
Ants, white zoology 595.73
Apothecary 615.4
Apparatus, physical 530.7
Applied science schools 607
Appointments, presidential 353.03
Appomattox, Va. U. S. civ. war 973.7384
April 19, annivers. Amer. revol. 973.362
Arabic discovery of America 973.11
Arbor day 715
school celebrations 371.89
Arctic ocean physical geography 551.468
[1]Arenac co. Mich. history 977.473
travels 917.7473
Argus, ship U. S. war of 1812 973.5253
Arizona discovery of America 973.16
acquisition Mex. war 973.621
For military history, see subdivisions of Special campaigns and Military history under 973.7 and 973.89
Arkansas, admission U. S. hist. 973.56
secession " 973.713
For military history, see subdivisions of Special campaigns and Military history under 973.52, 973.7 and 973.89
[1]Armenia modern history 956.6
[1]Armstrong co. Pa. history 974.888
travels 917.4888
Army and navy union, regular 369.111
chaplains U. S. civil war 973.778
corps " 973.7416
life " 973.783
regular " 973.7411
revivals " 973.778
Salvation relig. ass'ns 267.15
Arnold, B. Can.exped. Amer. revol. 973.3316
in Conn. " 973.3377
naval hist. " 973.352
treason " 973.382
[1]Aroostook co. Me. history 974.11
travels 917.411
war U. S. hist. 973.57
Artificial colors chem. tech. 667.2
lights " 665
Artillery U. S. civil war 973.7417
Artistic furniture 749
Ashburton treaty U. S. hist. 973.58
Ashes, volcanic lithology 552.22
Asphaltum chem. tech. 665.4
Assaying 669.9
Assessment, civil service 351.6
Astronomic photography 522.63
Atalanta, ship Amer. revol. 973.357
Athletic clubs 613.7
Atlanta campaign U. S. civ. war 973.7371
ship U. S. war of 1812 973.5255
[1]Atlantic co. N. J. history 974.984
travels 917.4984
ocean physical geog. 551.461
squadron U.S. civil war 973.756
U S. war with Spain 973.895
states
For military history of N. or S. division or individual states, see subdivisions of Special campaigns, and Military history under 973.3, 973.52, 973.62, 973.7 and 973.89
Attendance, church 264
Auction catalogs, author 018.3
classed 017.3
dictionary 019.3
[1]Aurora, Ill. history 977.323
travels 917.7323
Austrian succession, war U.S. hist. 973.26
Author bibliographies, individ. 012
catalog, lib. adm. 025.3
Authors' wages 655.52
Auxiliaries, American, in revol 973.346
Avon, ship U. S. war of 1812 973.5255
Aztec club of 1847 369.145
Bags and bagging textile manuf. 677
Baker shorthand 653.35
Baking powder chem. tech. 664.6
Balbóa discovery of America 973.16
Ball's Bluff, Va. U. S. civ. war 973.7318
Baltic sea physical geography 551.461
[1]Baltimore co. Md. history 975.271
travels 917.5271
riot U.S. civil war 973.7313
Bananas agriculture 634
Bank, U.S. national U. S. history 973.41
[1]Baraga co. Mich. history 977.497
travels 917.7497
Barbary states, wars U. S. hist. 973.47
Barbed wire manufacture 672
Barrows shorthand 653.73
[1]Barry co. Mich. history 977.416
travels 917.7416
[1]Bartholomew co. Ind. history 977.224
travels 917.7224
[1]Battle Creek, Mich. history 977.422
travels 917.7422
Battle-flag day U. S. civil war 973.763
Battles, special Amer. revol. 973.33
Mexican war 973.623
U.S. war of 1812 973.523
" with Spain 973.893
[1]Bay City, Mich. history 977.447
travels 917.7447
[1] co. Mich. history 977.447
travels 917.7447
Bay of Bengal physical geography 551.467

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index.

[1]Beaver co, Pa. history 974.892
travels 917.4892
[1]Bechuanaland history 968.9
travels 916.89
[1]Bedford co. Pa. history 974.871
travels 917.4871
Behaim, M. discovery of Amer. 973.11
[1]Belknap co. N. H. history 974.24
travels 917.424
Bell shorthand 653.42
[1]Belleville, Ill. history 977.389
travels 917.7389
Belmont, Mo. U. S. civil war 973.751
Bemis Heights Amer. revol. 973.3333
Bengal, bay of physical geography 551.467
Bennington, Vt. Amer. revol. 973.3332
[1] co. Vt. history 974.38
travels 917.438
[1]Benton co. Ind. history 977.297
travels 917.7297
[1]Benzie co. Mich. history 977.463
travels 917.7463
[1]Bergen co. N. J. history 974.921
travels 917.4921
Bering sea treaty U.S. hist. 973.86
arbit. decis. " 973.87
[1]Berks co. Pa. history 974.816
travels 917.4816
Bermuda Hundred U.S. civ. war 973.7365
[1]Berrien co. Mich. history 977.411
travels 917.7411
Bethel church, Va. U.S. civ. war 973.7313
Bible classes, Y M. C. A. 267.3523
Biennial egislation 328
Big Bethel, Va U.S civ. war 973.7313
Binders, temporary lib. economy 025.7
Biography of gipsies 397
Bishop shorthand 653.74
Black Hawk war U. S. history 973.562
[1]Blackford co. Ind. history 977.268
travels 917.7268
Bladensburg U.S. war of 1812 973.5238
[1]Blair co. Pa. history 974.875
travels 917.4875
Bland silver act U. S. history 973.83
Blind, libraries for 027.8
[1]Block Island, R. I. history 974.58
travels 917.458
Blockade U. S. civil war 973.758
[1]Bloomington, Ill. history 977.359
travels 917.7359
Bombs, dynamite chem. tech. 662.2
Bon Homme Richard Amer. revol. 973.355
[1]Bond co. Ill. history 977.387
Bond co. Ill. travels 917.7387
Book buying lib. administration 025.2
holders office equipment 651
numbers lib. administration 025.8
Books and reading, professorships of 028.6
cleaning lib. administration 025.7
mending " " 025.7
of reference " " 025.5
old, lists of " bookbuying 025.2
repairing of " administration 025.7
selection of " " 025.2
weight of " economy 022.4
[1]Boone co. Ill. history 977.329
travels 917.7329
[1] Ind. history 977.254
travels 917.7254
Boston, siege Amer. revol. 973.3313
Boundary, Mexican U.S. history 973.621
Northeast " 973.58
N. W. Oregon " 973.611
San Juan " 973.82
Texas " 973 621
Venezuela " 973.87
Bounties U. S. civil war 973.7413
Bouquet's expedition U.S. history 973.27
Boxer, ship U.S. war of 1812 973.5253
Boys religious societies 267.7
dept. Y. M. C. A. 267.357
Braddock's defeat U.S. history 973.26
[1]Bradford co Pa. history 974.857
travels 917.4857
[1]Branch co. Mich. history 977.421
travels 917.7421
Brandywine, battle Amer. revol. 973.3336
Brant indian attacks " 973.3345
Briar creek " 973.3357
[1]Bridgeton. N. J. history 974.995
travels 917.4995
Brief longhand abbreviations 653.2
Bristle tails insects 595.71
Bristoe campaign U.S. civil war 973.7353
[1]Bristol co. R. I. history 974.55
travels 917.455
British Guiana boundary U.S. hist. 973.87
Brooks assault on Sumner " 973.7114
[1]Brown co. Ill. history 977.347
travels 917.7347
[1] Ind. history 977.225
travels 917.7225
Brown's, John. raid causes of U.S. civil war 973.7116
hist. of slavery 326.973
U.S. history 973.68
Virginia 975 5

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index.

[1]Bucks co. Pa. history 974.821
travels 917.4821
Buena Vista, battle Mex. war 973.6235
Buildings, library architecture 727.8
Y. M. C. A. **267.32**
architecture 726.9
Bull Run, first battle U.S.civ.war 973.7314
second " " " 973.7328
Bull's Ferry, N. Y. Amer. revol. 973 3365
Bunker hill, battle " 973 3312
monument " 973.366
[1]Bureau co. Ill. history 977.337
travels 917 7337
Burgoyne's campaign Am.revol 973.3332
surrender " 973 3333
[1]Burlington co. N. J. history 974.961
travels 917.4961
Burnside exped. U. S. civ. war 973.7324
Burnz shorthand 653.64
Burr, Aaron, conspiracy trials 343.1
U.S.hist. 973.48
[1]Butler co. Pa. history 974.891
travels 917.4891
Cabal, Conway Amer. revol. 973.349
Cabalistic art **133**
Cable roads city transit 388
Cabot, John discov. of America 973.17
Sebastian " " 973.17
Cabs city transit 388
Caddice flies zoology 595.74
[1]Cairo, Ill. history 977.3999
travels 917.73999
Calculations engineering 620.8
[1]Caledonia co. Vt. history 974.33
travels 917.433
[1]Calhoun co. Ill. history 977.385
travels 917.7385
[1] Mich. history 977.422
travels 917.7422
California, acquisition Mex. war 973.621
admission U.S. hist. 973.64
Fremont in Mex. war 973.6232
mil. hist. U. S civ. war 973.7494
Spanish war 973 89494
[1]Calvert co. Md. history 975.244
travels 917.5244
[1]Cambria co. Pa. history 974.877
travels 917.4877
Camden, Ark. exped. U.S.civ.war 973.7363
[1] city, N. J. history 974.988
travels 917 4988
[1] co. N. J. history 974.987
travels 917.4987
S. C. battle Amer. revol. 973.3363
Camera lucida microscopy 578.4
obscura optics 535.86
photography 771
[1]Cameron co. Pa. history 974.866
travels 917.4866
Campaigns Amer. revol. 973.33
Mexican war 973 623
political 329
U. S. war of 1812 973.523
with Spain 973.893
Canada campaign U.S.war 1812 973.5233
discovery of America 973.18
Canadian expeditions Amer. revol. 973.3315
Canals transportation 656
Candy adulterations 614.311
Caney, El, battle U.S. war with Spain 973.893
Canoe building 699
Cant ethics 179.8
Caoutchouc organic chemistry 547.24
[1]Cape May co. N. J. history 974.998
travels 917.4998
[1]Carbon co. Pa. history 974.826
travels 917.4826
Card catalog lib. economy 025.3
system literary methods 029.1
Caribbean sea physical geography 551.463
Carolinas
For military history, see subdivisions of Special campaigns and Military history under 973.3, 973.52, 973.7 and 973.89
Caroline, burning U. S. hist. 973.57
[1] co. Md. history 975.231
travels 917.5231
[1]Carroll co. Ill. history 977.334
travels 917.7334
[1] Ind. history 977.294
travels 917.7294
[1] Md. history 975.277
travels 917.5277
[1] N. H. history 974.24
travels 917.424
Cartier, Jacques discov. of Amer. 973.18
[1]Cass co. Ill. history 977.346
travels 917.7346
[1] Ind. history 977.286
travels 917.7286
[1] Mich. history 977.412
travels 917.7412
Caterer domestic economy 641
Causes Amer. revolution 973.311
Mexican war 973.621
U. S. civil war 973.71
war of 1812 973.521
with Spain 973.891
Cavalry U. S. civil war 973.7417

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index.

[1]Cecil co. Md. history 975.238
travels 917.5238
Cedar creek, Va. U.S.civ.war 973.7377
mountain, Va. " " 973.7328
run, Va. " " 973.7328
Celebrations Amer. revol. 973.36
Mexican war 973.626
U. S. civil war 973.76
war of 1812 973.526
w.Spain 973.896
Cemeteries public health 614.61
Centennial expos'n, Phil. U.S.hist. 973.82
[1]Center co. Pa. history 974.853
travels 917.4853
Cerro Gordo Mex. war 973.6237
Cervera's squadron Spanish war 973.895
Cession to U.S. of Alaska U.S. hist. 973.81
California " 973.621
Florida " 973.54
Louisiana " 973.46
Phillipines " 973.891
Span.hist. 946.08
Porto Rico " 946.08
U. S. hist. 973.891
Western territory " 973.318
Chaldean religion 299.22
Champagne chem. tech. 663.2
[1]Champaign co. Ill. history 977.366
travels 917.7366
Champlain, S. de discov. of Amer. 973.18
lake, battle Amer.revol. 973.352
war of 1812 973.5256
history 974.754
travels 917.4754
Chancellorsville, Va. U.S.civ.war 973.7346
Chaplains, army " " 973.778
Chapultepec, battle Mex. war 973.6239
Charcoal, animal chem. tech. 668.7
[1]Charles co. Md. history 975.247
travels 917.5247
Charleston, S.C. U.S.civ.war 973.7351
harbor, 1861 " " 973.7311
" 1864 " " 973.7364
naval history " " 973.753
siege Amer. revol. 973.3362
[1]Charlevoix co. Mich. history 977.486
travels 917.7486
[2]Charts of special topic see subject
Chattanooga-Ringgold campaign
U. S civ. war 973.7359
[1]Cheboygan co. Mich. history 977.487
travels 917.7487
Cheers, college 371.89
Chemistry, physiologic zoology 591.19
Cherbourg, France U.S.civ.war 973.754
Cherry Valley massacre Am.rev. 973.3345
Cherub, ship U.S. war of 1812 973.5255
Chesapeake, ship " " 973.5253
[1]Cheshire co. N. H. history 974.29
travels 917.429
[1]Chester co, Pa history 974.813
travels 917.4813
Chickamauga, Ga. U. S. civ. war 973.7355
Chile controversy " history 973.86
Chinese discovery of America 973.12
exclusion act U. S. hist. 973.86
Chippewa, battle U.S. war of 1812 973.5237
[1] co. Mich. history 977.491
travels 917.7491
[1]Chittenden co. Vt history 974.31
travels 917.431
Chlorosis diseases 616.15
Christian commission U.S. civ.war 973.7781
[1] co. Ill. history 977.381
travels 917.7381
science 615.851
unions, young men's 267.233
Church attendance 264
[4] Slavonic language 491.81
unity 280
Churches and American revolution 973.315
U. S. civil war 973.715
Churubusco, battle Mexican war 973.6238
Cicero orations 875.2
philosophical works 875.4
rhetorical works 875.3
Cider chem. technology 663.1
Cincinnati, soc. of daughters of 369.132
Circulation money 332
Citizenship, constitutional amendment U.S. hist. 973.81
Civil rights act " 973.82
service reform 1871 " 973.82
1883 973.84
war associations, confederate 369.17
societies, union 369.15
[1]Clare co. Mich. history 977.471
travels 917.7471
[1]Clarion co. Pa. history 974.869
travels 917.4869
[1]Clark co. Ill. history 977.371
travels 917.7371
[1] Ind history 977.218
travels 917.7218
Clark's expedition Amer. revol. 973.3348
[1]Clay co. Ill. history 977.3795
travels 917.73795
[1] Ind. history 977.244

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index.

Clay co. Ind. travels 917.7244
Clayton-Bulwer treaty U.S. hist. 973.64
[1]Clearfield co. Pa. history 974.861
travels 917.4861
Clergy and American revolution 973.315
U.S. civil war 973.715
Cleveland, G. 2d presidency 973.87
[1]Clinton co. Ill. history 977 387
travels 917.7387
[1] Ind. history 977.255
travels 917.7255
[1] Mich. history 977.424
travels 917.7424
[1] Pa. history 974.854
travels 917.4854
Fort American revol. 973 3335
Clinton's advance " " 973.3335
Clippings literary methods 029.3
Close vs broad classification 025 4
Closet, water air pollution 614.764
san. engineering 628.6
Coal trade 338.2
Cocaine anesthetics 615.781
Cockroaches zoology 595.72
Coinage act U. S. hist. 973.82
Cold Harbor, Va. U. S. civ. war 973.7368
[1]Coles co. Ill. history 977.372
travels 917.7372
College cheers 371.89
graduates and Amer revol. 973.315
Y. M. C. A. 267.361
Colleges in U. S. civ. war 973.715
Colonial dames of Amer. 369.123
society 369.122
societies 369.12
wars, society 369.121
Colorado, admission U. S. hist. 973.82
discovery of America 973.16
mil.hist.U.S.civ.war 973.7488
Spanish war 973.89488
Colored men Y. M. C. A. 267.365
Colors, use of literary methods 029.1
[1]Columbia co. Pa. history 974.838
travels 917.4838
Columbus discovery of America 973.15
Commemorations Amer. revol. 973.36
Mexican war 973.626
U.S. civil war 973.76
war of 1812 973.526
with Spain 973.896
Commercial agencies credit 332.7
travelers Y.M.C.A. 267.363
[3]Comparison, signs of Eng. etymol. 422.6
inflection 425.16
Compromise of 1850 U.S. civ. war 973.7113
tariff act " history 973.56
Compromises, slavery " " 973.7113
Concord, battle Amer revol. 973.3311
Condensed milk 637
Condiments chemical technology 664.5
Confederate navy U. S. civ. war 973.757
states of Amer. formed 973.713
survivors ass'n 369.171
veterans " 369.172
Confidence practices 174.6
Connecticut, Arnold in Am. revol. 973 3377
Pequot war 973.22
Tryon in Am. revol. 973.3351
For military history see subdivisions of Special campaigns and Military history under 973.3, 973.7 and 973.89
Conservatories 716.3
Constellation, ship U. S. hist. 973.45
Constitution centennial U.S.hist. 973.85
ship U.S.war of 1812 973.5251
captures by " 973.5257
Continental congress " 973.312
U.S.legis.bodies 328.73
Contreras, battle Mexican war 973.6238
Conventions political parties 329
Conway cabal Amer. revol. 973.349
[1]Cook co. Ill. history 977.31
travels 917.731
Cooperation literary methods 029.1
[1]Coos co. N. H. history 974.21
travels 917.421
Copy and proof literary methods 029.6
Cordage manufacture 677
Corinth, Miss. battle U.S.civ. war 973.7334
siege " " 973.7325
Cornwallis' surrender Amer.revol. 973.3375
Coronado discovery of America 973.16
Corps, army U. S. civil war 973.7416
Correspondence shorthand 653.042
Cortereal, Gaspar discov.of Amer. 973.16
Miguel " 973.16
Cortés, Hernando " 973.16
Cost political economy 338
Cotton exposit. internat. U.S.hist. 973.84
Court reporting shorthand 653.046
Cowpens, S. C. Amer. revol. 973.3372
[1]Crawford co. Ill. history 977.375
travels 917.7375
[1] Ind. history 977.228
travels 917.7228
[1] Mich. history 977.477
travels 917.7477
[1] Pa. history 974.897
travels 917.4897

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index.

Credit mobilier railroads 385
Creek indians, removal U.S.hist. 973.55
Crittenden compromise civ. war 973.712
Cross shorthand 653.36
Crown Point, battle Amer. revol. 973.3314
U. S. col. hist. 973.26
Cruisers naval engineering 623.8
Cuba filibuster exped. U. S. hist. 973 64
Spanish misrule " 973.891
[1]Cumberland, Md. history 975.295
travels 917.5295
[1] co. Ill. history 977.373
travels 917.7373
[1] Me history 974.19
travels 917.419
[1] N.J. history 974.994
travels 917.4994
[1] Pa. history 974.843
travels 917.4843
Customs of primitive man 571
Cyane, capture of U.S.war of 1812 973.5257
Dairy products adulterations 614 32
[1]Danville, Ill. history 977.365
travels 917.7365
Darling, Fort, Va. U.S. civ. war 973.7365
Dartmoor prison " war of 1812 973.5271
Daughters 1776-1812, soc. of U.S. 369.142
of the Amer. revolution 369.135
Cincinnati, soc. 369.132
revolution 369.136
[1]Dauphin co. Pa. history 974 818
travels 917.4818
[1]Daviess co. Ind. history 977.238
travels 917.7238
Davis, John discovery of Amer. 973.17
Days of week, names 529.2
Dead, list of U. S. civil war 973.767
[1]Dearborn co. Ind. history 977.211
travels 917.7211
Debt local government 352.1
Debts, state and national 336.4-9
[1]Decatur, Ill. history 977.358
travels 917.7358
co. Ind. history 977.216
travels 917.7216
[1]Dekalb co. Ill. history 977.328
travels 917 7328
[1] Ind. history 977.277
travels 917.7277
Delaware
For military history, see subdivisions of Special campaigns and Military history under 973.3, 973.52, 973.7 and 973.89
[1]Delaware co. Ind. history 977.265
travels 917.7265
[1]Delaware co. Pa. history 974.814
travels 917.4814
forts on Amer. revol. 973.3337
[1]Delta co. Mich. history 977.494
travels 917.7494
Dependent pension bill U.S.hist. 973.85
Depressions, trade commerce 381
money 332
production 338
Desks office equipment 651
Detached vowels shorthand 653.01
Determination of rock minerals 552.81
Detroit, surrender U.S. war of 1812 973.5231
Dettmann shorthand 653.34
[1]Dewitt co. Ill. history 977.358
travels 917.7358
[1]Dickinson co. Mich. history 977.495
travels 917.7495
Dingley tariff act U. S hist. 973.88
Diplomatic history Amer. revol. 973.32
Mexican war 973.622
U.S. civ. war 973.72
war of 1812 973.522
w.Spain 973.892
Discovery of America U.S. hist. 973.1
Diseases of plants agriculture 632
Divine law 231.7
Donelson, Fort U.S. civ. war 973.752
capture " " 973.7322
[1]Dorchester co. Md. history 975.227
travels 917.5227
Dorr's rebellion U.S. hist. 973.58
[1]Douglas co. Ill history 977.368
travels 917.7368
Drafts U.S. civil war 973.7414
Drake, Francis discov. of Amer. 973.17
Dramas American revolution 973.392
U.S. war of 1812 973.5292
Drawings engineering 620.04
mechan. " 621.004
Dred Scott case, causes U.S.civ.war 973.7115
decision slavery 326.973
U.S. hist. 973.68
Drewry's Bluff, Va. " civ.war 973.7365
Drury's Bluff, Va. " " 973.7365
[1]Dubois co. Ind. history 977.237
travels 917.7237
Dunmore's, Lord, war U.S. hist. 973.27
[1]Dupage co. Ill. history 977.324
travels 917.7324
Duployé shorthand 653.38
Dwelling houses laboring classes 331.83
[1]East New Jersey history 974.91
travels 917.491

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index.

[1]East St Louis, Ill. history 977 389
travels 917.7389
[1]Eaton co. Mich. history 977.423
travels 917.7423
[1]Edgar co. Ill. history 977.369
travels 917.7369
Edmund's polygamy act U.S. hist. 973.84
Edwards co. Ill. history 977.3791
travels 917.73791
Ferry, Va. U.S.civ.war 973.7318
[1]Effingham co. Ill. history 977.3796
travels 917.73796
Eggs poultry 636.5
Eight hour law 331.81
Elasticity theory of engineering 620.1
Electoral commission suffrage 324.73
U. S. hist. 973.82
frauds 324
Electric storms 538.7
telegraph physics 537.81
Electricity, accidents from 614 836
Elevated railroad city transit 388
[1]Elgin, Ill. history 977.323
travels 917.7323
[1]Elizabeth, N. J. history 974.937
travels 917.4937
[1]Elk co. Pa. history 974.865
travels 917.4865
[1]Elkhart co. Ind. history 977.281
travels 917.7281
Elkhorn tavern, Ark. U.S.civ.war 973.7323
Emancipation proclam. " " 973.714
Emery wheels 621.92
[1]Emmet co. Mich. history 977.488
travels 917.7488
Employ't agencies, laboring classes 331.86
Y. M. C. A. 267.35
Engineers U. S. civil war 973.7417
English discovery of America 973.17
prisons Amer. revol. 973.371
U.S. war of 1812 973.5271
Enterprise, ship " 973.5253
Epervier, ship " 973.5255
[5]**Epistles** English literature 826
Epitaphs monuments 718
[3]Epithets Eng. language 426.8
Eric the Red discov. of America 973.13
Ericson, Leif " 973.13
Erie canal U. S. history 973.55
[1] co. Pa. history 974.899
travels 917.4899
Fort, capture U.S. war of 1812 973.5237
Lake, battle " 973.5254
[1]Essex co. N. J. history 974.931
Essex co. N. J. travels 917.4931
[1] Vt. history 974.32
travels 917.432
ship U. S. war of 1812 973.5255
Estates of the realm 328
Esthetics literary 801
[3]**Etymology, inflection, Eng. lang.** 425.1
Eutaw Springs, S. C. Amer.revol. 973.3373
[1]Evansville, Ind. history 977.233
travels 917.7233
Everett shorthand 653.72
Exact reference literary methods 029.1
Exchange, bills of money 332.5
of prisoners Amer.revol. 973.373
U.S.civ.war 973.773
Experiments physics 530.7
Explosions, history of 614.83
Export duties U. S. tariff 336.26
Exports free trade 337
Extension, university 378.13
Factory inspection polit. economy 331.82
Failures, trade 332.7
Fair Oaks, Va. battle U.S. civ. war 973.7327
[1]Fairfield co. Ct. history 974.69
travels 917.469
Farming profits polit. economy 338.1
Faro amusements 795
ethics 175.5
Fat disease 616 39
[1]Fayette co. Ill. history 977.3797
travels 917.73797
[1] Ind. history 977.262
travels 917.7262
[1] Pa. history 974.884
travels 917.4884
Fees 331.2
Fenian invasion of Can. U.S.hist. 973.81
Ferneries 716.5
Fiction American revolution 973.393
U. S. civil war 973.793
war of 1812 973.5293
Field operations geology 550.7
Figs agriculture 634
Files literary methods 029.3
mechanical eng. 621.92
office equipment 651
Filibuster exped. to Cuba U.S.hist. 973.64
Walker's " 973.66
Fisher, Ft. N.C. capture U.S.civ.war 973.7383
expedition " 973.7375
nav. hist. " 973.754-5
Fisheries treaty, 1888 U.S.hist. 973.85
Fishing business 639
Five Forks, Va. battle U.S.civ. war 973.7384

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index.

Flagellation religious asceticism 248
Flags U. S. civil war 973.763
Floods, protection against 627.4
Florida, admission U. S. historv 973.58
discovery of America 973.16
expedition U. S. civ. war 973.7364
French settlement 973.18
purchase U. S. history 973.54
secession " 973.713
ship U. S. civ. war 973.757
For military history of state, see subdivisions of Special campaigns and Military history under 973.52, 973.7 and 973.89
[1]Floyd co. Ind. history 977.219
travels 917.7219
Fog signals applied acoustics 534.83
Fonoscribing shorthand 653.2
[1]Ford co. Ill. history 977.362
travels 917.7362
Foreign wars of U.S. military order 369.115
[1]Forest co. Pa. history 974.868
travels 917.4868
[1]Fort Wayne, Ind. history 977.274
travels 917.7274
Founders and patriots of Am. order 369.125
[1]Fountain co. Ind. history 977.247
travels 917 7247
Fourth of July. U.S. hist. 973.361
France, troubles with " 973.45
Franklin, Tenn. battle U.S. civ. war 973.7379
[1] co. Ill. history 977.394
travels 917.7394
[1] Ind. history 977.215
travels 917.7215
[1] Me. history 974.17
travels 917.417
[1] Pa. history 974 844
travels 917.4844
[1] Vt. history 974.31
travels 917.431
[1]Frederick city, Md. history 975.283
travels 917 5288
[1] co. Md. history 975.287
travels 917.5287
Fredericksburg, Va. U.S. civ. war 973.7339
Free coinage of silver 332.41
Freeman's farm Amer. revol. 973.3333
[1]Freeport, Ill. history 977 333
travels 917.7333
Fremont in California Mex. war 973.6232
French discovery of America 973.18
wars, early U.S. hist. 973.25
Frobisher, Martin discov. of Amer. 973.17
Frolic, ship U.S. war of 1812 973 5251
Fugitive slave law U.S. hist. 973.64
Fugitive slaves causes U.S. civ. war 973.7115
[1]Fulton co. Ill. history 977.348
travels 917.7348
[1] Ind. history 977.287
travels 917.7287
[1] Pa. history 974.872
travels 917.4872
Furniture office equipment 651
G. A. R. 369.151
Gabelsberger shorthand 653.33
[1]Gallatin co. Ill. history 977.397
travels 917.7397
Gardens, public 711
[1]Garrett co. Md. history 975.297
travels 917.5297
Gas fuel 662.6
Gaspé, burning Amer. revol. 973.3112
Geary Chinese exclus. act U.S. hist. 973.86
General secretary Y. M. C. A. 267.341
[1]Genesee co. Mich history 977.437
travels 917.7437
Genius, hereditary 136.3
George, Ft, capture U.S. war of 1812 973.5235
[1] lake, N. Y. history 974.751
travels 917.4751
George's, King, war U.S. hist. 973.26
Georgia secession " 973.713
settlement " 973.26
For military history, see subdivisions of Special campaigns and Military history under 973.3, 973.52, 973.7 and 973.89
German discovery of America 973.11
Germantown, Pa. Amer. revol. 973.3337
Gettysburg, Pa. battle U.S. civ. war 973.7349
[1]Gibson co. Ind. history 977.235
travels 917.7235
Gilbert, H. discovery of Amer. 973.17
Gipsies' biography 397
Girls religious societies 267.8
[1]Gladwin co. Mich. history 977.472
travels 917.7472
Glasgow, sloop Amer. revol. 973.352
[1]Gloucester co. N. J. history 974.981
travels 917.4981
[1]Gogebic co. Mich. history 977.498
travels 917.7498
Golden Fleece knights 929.715
Golf amusements 796
Gosnold, B. discovery of Amer. 973.17
Government, church 262
Grade crossing, railroad 625.1
Graduates, college, and Amer. revol. 973.315
U.S. civ. war. 973.715
[1]Grafton co. N. H. history 974.23
travels 917.423

Graham shorthand 653.52
Grand gulf, Miss. U. S. civ. war 973.753
[1] Isle co. Vt. history 974.31
travels 917.431
[1] Rapids, Mich. history 977.456
travels 917.7456
[1] Traverse co. Mich. history 977.464
travels 917.7464
[1]Grant co. Ind. history 977.269
travels 917.7269
[1]Gratiot co. Mich. history 977.449
travels 917.7449
Gravitation theories 531.51
Grease chemical technology 665.2
Greek calendar 529.3
Green Mts, Vt. description 917.43
Green sickness 616.15
[1]Greene co. Ill. history 977.384
travels 917.7384
[1] Ind. history 977.242
travels 917.7242
[1] Pa. history 974.883
travels 917.4883
[1]Grundy co. Ill. history 977.326
travels 917.7326
Guerillas, northern U. S. civ. war 973.7417
southern " 973.742
Guerrière, ship U.S. war of 1812 973.5251
Guilford, N. C. Amer. revol. 973.3372
[1]Guinea New history 995
travels 919.5
Gulf squadron U. S. civ. war 973.756
states

For military history of all or individual states, see subdivisions of Special campaigns and Military history under 973.52, 973.7 and 973.89

Gunnbiorn discovery of Amer. 973.13
Gurney shorthand 653.32
Gymnasiums, Y. M. C. A. 267.327
Gypsies' biography 397
[1]Hagerstown, Md. history 975.292
travels 917.5292
Hale, Nathan Amer. revol. 973.385
Halifax fishery award U. S. hist. 973.83
[1]Hamilton co. Ill. history 977.395
travels 917.7395
[1] Ind. history 977.256
travels 917.7256
[1]Hancock co. Ill. history 977.343
travels 917.7343
[1] Ind. history 977.258
travels 917.7258
[1] Me. history 974.14
travels 917.414
Handkerchief customs 391.6
[1]Hardin co. Ill. history 977.398
travels 917.7398
Harding shorthand 653.35
[1]Harford co. Md. history 975 274
travels 917.5274
Harlem Heights, battle Amer. revol. 973.3324
Harmar's expedition U. S. hist. 973.42
Harrisburg, Miss. U. S. civ. war 973.7372
Harrison, B: presidency of 973.86
[1] co. Ind. history 977.221
travels 917.7221
[1]Hartford city, Ct. history 974.63
travels 917.463
[1] co. Ct. history 974.62
travels 917.462
Hatteras inlet, N. C. U. S. civ. war 973.751
Haven shorthand 653.56
Hawaii, annexation U. S. hist. 973.88
Hawaiian annex. treaty " 973.86
Hawkins, John discov. of Amer. 973.17
Hay agriculture 633
[1]Hebrides, New history 993.4
travels 919.34
[1]Henderson co. Ill. history 977.341
travels 917.7341
[1]Hendricks co. Ind. history 977.253
travels 917.7253
Henry co. Ill. history 977.338
travels 917.7338
[1] Ind. history 977.264
travels 917.7264
Fort, capture U.S. civ. war 973.7322
naval hist. " 973.752
Hereditary societies Amer. **369.1**
Herjulfson, Bjarni, discov. of Amer. 973.13
Hessians American revolution 973 342
[1]Hillsboro co. N. H. history 974.28
travels 917.428
[1]Hillsdale co. Mich. history 977.429
travels 917.7429
Hobkirks hill, S. C. Amer. revol. 973.3372
[1]Hoboken, N. J. history 974.928
travels 917.4928
Holy Ghost, knights of 929.716
Homage feudalism 321.3
Home rule Irish history 941.58
political parties 329.942
Homes, soldiers' institutions 362.8
working girls' " 362.8
pol. econ. 331.83
Honor, roll of U. S. civil war 973.767
Hornet and Peacock U.S. war of 1812 973.5253
Penguin " 973.5257

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index.

Horticulture fruits and vegetables 630
Hose fire engines 614.846
Hospitalers knights 929.711
Hospitals American revolution 973.375
Mexican war 973.627
U. S. civil war 973.775
war of 1812 973.527
with Spain 973.897
[1]Houghton co. Mich. history 977.499
travels 917.7499
[1]Howard co. Ind. history 977.285
travels 917.7285
[1] Md. history 975.281
travels 917.5281
Howe's campaign Amer. revol. 973.3336
Hubbardton, Vt. " 973.3332
Hudson, campaign for the " 973.3321
[1] co. N. J. history 974.926
travels 917.4926
Hudson's, H: voyage U. S. hist. 973.21
N.Y. " 974.7
Humor American revolution 973.396
U.S. civil war 973.796
war of 1812 973.5296
[1]Hunterdon co. N.J. history 974.971
travels 917.4971
[1]Huntingdon co. Pa. history 974.873
travels 917.4873
[1]Huntington co. Ind. history 977.271
travels 917.7271
[1]Huron co. Mich. history 977.444
travels 917.7444
Ices domestic economy 642
Idaho, admission U.S. hist. 973.86
military hist. " civ. war 973.7496
U.S. war w. Spain 973.89496
Illinois, admission U. S. hist. 973.54
For military history, see 973.52473, 973.7473 and 973.89473
Imports, duty on 337
Inaugurations ceremonies 394.4
Income tax law, decis. U.S. hist. 973.87
Indian depredations Amer. revol. 973.3344
Indian wars in U.S. eastern 973.24
French and indian 973.26
Harmar's expedition 973.42
King Philip's 973.24
William's 973.25
Modoc 973.82
Pequot 973.22
Queen Anne's 973.25
St Clair's expedition 973.42
Seminole, first, 1818 973.541
2d, 1835-42 973.571
Indiana, admission U.S. hist. 973.51
For military history see 973.52472, 973.7472 and 973.89472
[1]Indiana co. Pa. history 974.889
travels 917.4889
[1]Indianapolis, Ind. history 977.252
travels 917.7252
Indians, Amer. biography 970.2
Y. M. C. A. 267.366
British allies Amer. revol. 973.343
" U.S. war of 1812 973.5242
[1]Indies, East, Dutch history 991
travels 919.1
Inebriety diseases 616.861
Infants, food for nursery 649
Infusorial earth economic geology 553.69
[1]Ingham co. Mich. history 977.426
travels 917.7426
Inland seas physical geography 551.48
Instruction education 370
Insurgente, L', ship U.S. history 973.45
Interoceanic canals sociology 386
Interstate commerce commission 385
U.S. hist. 973.85
Inundations, protection engineering 627.4
[1]Iona co. Mich. history 977.454
travels 917.7454
[1]Iosco co. Mich. history 977.474
travels 917.7474
Iowa, admission U. S. hist. 973.61
For military history, see 973.52477, 973.7477 and 973.89477
Irish discovery of America 973.11
home rule history 941.58
[1]Iron co. Mich. " 977.497
travels 917.7497
[1]Iroquois co. Ill. history 977.364
travels 917.7364
[1]Isabella co. Mich. history 977.451
travels 917.7451
[1]Ishpeming, Mich. history 977.496
travels 917.7496
Island no. 10, Ky. U.S. civ. war 973.752
[1]Isle Royale co. Mich. history 977.499
travels 917.7499
Italian art galleries 708.5
discovery of America 973.11
Ivy landscape gardening 716.1
[1]Jackson city, Mich. history 977.428
travels 917.7428
[1] co. Ill. history 977.3994
travels 917.73994
[1] Ind. history 977.223
travels 917.7223
[1] Mich. history 977.428

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index.

Jackson co. Mich. travels 917.7428
[1]Jacksonville, Ill. history 977.346
travels 917.7346
Jamestown, settlement U.S.hist. 973.21
Va. " 975.5
[1]Jasper co. Ill. history 977.374
travels 917.7374
[1] Ind. history 977.297
travels 917.7297
Java, ship U. S. war of 1812 973.5251
[1]Jay co. Ind. history 977.267
travels 917.7267
Jay's treaty U. S. history 973.43
[1]Jefferson co. Ill. history 977.3793
travels 917.73793
[1] Ind. history 977.213
travels 917.7213
[1] Pa. history 974.862
travels 917.4862
[1]Jeffersonville, Ind. history 977.218
travels 917.7218
[1]Jennings co. Ind. history 977.217
travels 917.7217
[1]Jersey co. Ill. history 977.385
travels 917.7385
prison ship Amer. revol. 973.3711
Jerseys, Washington in the, Am. rev. 973.3325
Jerusalem, St John of knights 929.711
Jewish discovery of America 973.11
[1]Jo Daviess co. Ill. history 977.334
travels 917.7334
[1]Johnson co. Ill. history 977.3996
travels 917.73996
[1] Ind. history 977.251
travels 917.7251
[1]Joliet, Ill. history 977.325
travels 917.7325
Jones shorthand 653.43
[1]Juniata co. Pa history 974.847
travels 917.4847
Juvenile books reading and aids 028.5
[1]Kalamazoo city, Mich. history 977.418
travels 917.7418
[1] co. Mich. history 977.417
travels 917.7417
[1]Kalkaska co. Mich. history 977.465
travels 917.7465
[1]Kane co. Ill. history 977.323
travels 917.7323
[1]Kankakee co. Ill. history 977.363
travels 917.7363
Kansas, admission U. S. hist. 973.68
For military history, see subdivisions of Special campaigns and Military history under 973.7 and 973.89
Kansas-Nebraska bill U. S. hist. 973.66
Karlsefne, T. discovery of Amer. 973.13
Kearny in New Mexico Mex. war 973.6231
Kearsarge, ship U. S. civil war 973.754
Kempis, Thomas à 242.1
[1]Kendall co. Ill. history 977.326
travels 917.7326
[1]Kennebec co. Me. history 974.16
travels 917.416
[1]Kent co. Del. history 975.14
travels 917.514
[1] Md. history 975.236
travels 917.5236
[1] Mich. history 977.455
travels 917.7455
[1] R. I. history 974.54
travels 917.454
Kentucky, admission U. S. hist. 973.41
For military history, see subdivisions of Special campaigns and Military history under 973.52, 973.7 and 973.89
[1]Keweenaw co. Mich. history 977.499
travels 917.7499
Kilpatrick's exped. U.S. civil war 973.7362
King George's war " history 973.26
Philip's " " 973.24
William's " " 973.25
King's daughters 267.433
mountain, S.C. Amer. revol. 973.3364
Knights Hospitalers 929.711
of Rhodes 929.711
of St John 929.711
Knownothing party U. S. hist. 973.66
[1]Knox co. Ill. history 977.349
travels 917.7349
[1] Ind. history 977.239
travels 917.7239
[1] Me. history 974.15
travels 917.415
Knoxville campaign U.S. civ. war 973.7358
Kola therapeutics 615.32318
[1]Kosciusko co. Ind. history 977.282
travels 917.7282
Labor, dep't estab. U. S. history 973.85
Laboratories, biologic 590.7
Labrador discovery of America 973.16
[1]Lackawanna co. Pa. history 974.836
travels 917.4836
[1]Lafayette, Ind. history 977.295
travels 917.7295
[1]Lagrange co. Ind. history 977.279
travels 917.7279
[1]Lake Champlain history 974.754
travels 917.4754
[1]Lake co. Ill. history 977.321

Lake co. Ill. travels 917.7321
[1] Ind. history 977.299
travels 917.7299
[1] Mich. history 977.468
travels 917.7468
states

For military history of all or individual states, see subdivisions of Special campaigns and Military history under 973.52, 973.7 and 973.89

[1] Lancaster co. Pa. history 974.815
travels 917.4815
Landed gentry English heraldry 929.725
[1] Lansing, Mich. history 977.427
travels 917.7427
[1] Lapeer co. Mich. history 977.442
travels 917.7442
[1] Laporte co. Ind. history 977.291
travels 917.7291
[1] Lasalle, Ill. history 977.327
travels 917.7327
Latin hymns hymnology 245.7
literature 879.1
Laudonnière discov. of America 973.18
Law and miracles theology 231.7
Sunday 263.8
[1] Lawrence co. Ill. history 977.376
travels 917.7376
[1] Ind. history 977.226
travels 917.7226
[1] Pa. history 974.893
travels 917.4893
[3] Laws of language Eng. etymology 422.1
Lawyers and American revolution 973.315
Leaves, shapes of botany 581.4
[1] Lebanon co. Pa. history 974.819
travels 917.4819
Lecompton constitution Kan. hist. 978.1
slavery 326.973
U.S. hist. 973.68
Lee, Charles, treason Amer. revol. 973.383
R. E. surrender U.S civ. war 973.7384
[1] co. Ill. history 977.336
travels 917.7336
[1] Leelanaw, Mich. history 977.463
travels 917.7463
Legal education 340.7
Legislative reporting shorthand 653.046
[1] Lehigh co. Pa. history 974.827
travels 917.4827
[1] Lemoille co. Vt. history 974.33
travels 917.433
Lemons agriculture 634
[1] Lenawee co. Mich. history 977.431
travels 917.7431
Leon, Ponce de discov. of Amer. 973.16
Leslie's Va. exped. Amer. revol. 973.3361
[2] Letters on special topics see subject
Levant, ship U.S. war of 1812 973.5257
Lexington, battle Amer. revol. 973.3311
Lexington, ship Amer. revol. 973.353
Libby prison U. S. civ. war 973.7712
Librarian Y. M. C. A. 267.342
Library " 267.3532
rooms " 267.325
Life, elixir of alchemy 540.1
[1] Lincoln co. Me. history 974.15
travels 917.415
Lindsley's takigrafy shorthand 653.71
Linings, masonry mining 622.28
watertight " 622.56
Linoleum manufactures 679
[1] Litchfield co. Ct. history 974.61
travels 917.461
Literature, immoral ethics 176.8
lib. econ. 025.2
Little Belt and President U.S. hist. 973.51
Lives of American indians 970.2
gipsies 397
slaves 326.92
Living, cost of 640
[1] Livingston co. Ill. history 977.361
travels 917.7361
Mich. history 977.436
travels 917.7436
Local option 178.4
[1] Logan co. Ill. history 977.357
travels 917.7357
[1] Logansport, Ind. history 977.286
travels 917.7286
Logical machines 164
Long Island, battle Amer. revol. 973.3322
Longley shorthand 653.63
Lookout Mt, battle U.S. civ. war 973.7359
Losses, regimental " 973.7419
Louisburg, capture U. S. col. hist. 973.26
Louisiana, admission U.S. history 973.51
purchase " 973.46
secession " 973.713

For military history, see subdivisions of Special campaigns and Military history under 973.52, 973.7 and 973.89

Lovejoy, E. P. murder of U.S. hist. 973.7114
Lower Silurian group geology 551.731
Loyal legion, military order 369.152
volunteers, society 369.153
Loyalists Amer. revol. 973.314
[1] Luce co. Mich. history 977.492
travels 917.7492
Lundy's Lane U. S. war of 1812 973.5237

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index.

[1]Luzerne co. Pa. history 974.8[illegible]
travels 917.48[illegible]
[1]Lycoming co. Pa. history 974.851
travels 917.4851
Lynchburg campaign U.S.civ.war 973.7369
[1]McDonough co. Ill. history 977.342
travels 917.7342
Macedonia, ship U.S. war of 1812 973.5251
[1]McHenry co. Ill. history 977.322
travels 917.7322
Fort U.S. war of 1812 973.5238
Machine guns mil. engineering 623.4
[1]McKean co. Pa. history 974.863
travels 917.4863
[1]Mackinac co. Mich. history 977.492
travels 917.7492
McKinley, W: presidency of 973.88
tariff act U.S. history 973.86
[1]McLean co. Ill. history 977.359
travels 917.7359
[1]Macomb co. Mich. history 977.439
travels 917.7439
[1]Macon co. Ill. history 977.358
travels 917.7358
[1]Macoupin co. Ill. history 977.383
travels 917.7383
[1]Madison co. Ill. history 977.386
travels 917.7386
[1] Ind. history 977.257
travels 917.7257
Madoc, Prince discov. of Amer. 973.14
Magalhaens " 973.16
Magazine guns see Rifles
Magellan straits, discov. of U.S. hist. 973.16
Maine, admission " 973.54
battleship U.S. war w. Spain 973.89
indian war U. S. col. hist. 973.24
miltary hist. " civ. war 973.7441
U.S. war w. Spain 973 89441
Managers Y. M. C. A. 267.333
Manassas, Va. 1st battle U.S. civ. war 973.7314
2d " " 973.7328
Manganese metallurgy 669.7
Manila, battle U.S. war with Spain 973.895
[1]Manistee city, Mich. history 977.462
travels 917.7462
[1] co. Mich. history 977.462
travels 917.7462
Map cases library admin. 025.8
Maps American revolution 973.399
U. S. civil war 973.799
war of 1812 973.5299
March to the sea U. S. civ. war 973.7378
Margaretta, capture Amer. revol. 973.351
[1]Marion co. Ill. history 977.3794
travels 917.73794
[1] Ind. history 977.252
travels 917.7252
[1]Marquette co. Mich. history 977.496
travels 917.7496
Marsh shorthand 653.54
[1]Marshall co. Ill. history 977.351
travels 917.7351
[1] Ind. history 977.288
travels 917.7288
[1]Martin co. Ind. history 977.238
travels 917.7238
Maryland
For military history, see subdivisions of Special campaigns and Military history under 973.3, 973.52, 973.7 and 973.89
[1]Mason co. Ill. history 977.355
travels 917.7355
[1] Mich. history 977.461
travels 917.7461
[1]Massac co. Ill. history 977.3997
travels 917.73997
Massachusetts King Philip's war 973.24
Shay's rebellion 973.318
For military history, see subdivisions of Special campaigns and Military history under 973.3, 973.7 and 973.89
Matamoras, battle Mexican war 973.6234
[1]Maxims on special topics see subject
Mayflower descendants, soc. 369.124
Meat supply domestic economy 643
production 338.1
Mechanical training 607
in schools 371.42
Mecklenburg declaration Am. rev. 973.313
[1]Mecosta co. Mich. history 977.452
travels 917.7452
Medal of honor legion 369.114
Medical testimony 614.23
law 340.6
Medieval science 502
Meekness ethics 179.9
Memorials American revolution 973.365
U. S. civil war 973.765
Memphis, Tenn. U. S. civ. war 973.752
[1]Menard co. Ill. history 977.355
travels 917.7355
[1]Menominee city, Mich. history 977.495
travels 917.7495
[1] co. Mich. history 977.495
travels 917.7495
Mercenaries Amer. revolution 973.342
[1]Mercer co. Ill. history 977.339
travels 917.7339
[1] N. J. history 974.965

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index.

Mercer co. N. J. travels 917.4965
[1] Pa. history 974.895
travels 917.4895
Mermaids folklore 398.4
Merrimac and Monitor U.S. civ. war 973.7324
[1] co. N. H. history 974.27
travels 917.427
naval hist. U.S civ. war 973.752
sinking U.S. war with Spain 973.895
Messenger service 385
Methods in special topics see subject
Mexican war pension act U.S. hist. 973.85
Mexico, citv, battles near Mex. war 973.6238
capture " 973.6239
[1] Miami co. Ind. history 977.284
travels 917.7284
Mica economic geology 553.9
Michigan, admission U. S. hist. 973.56
For military history, see 973.52474, 973.7474 and 973.89474
[1] Michigan city, Ind. history 977.291
travels 917.7291
Middle states
For military history of all or individual states, see subdivisions of Special campaigns and Military history under 973.3, 973.52, 973.7 and 973.89
[1] Middlesex co. Ct. history 974.66
travels 917.466
[1] N. J. history 974.941
travels 917.4941
[1] Midland co. Mich. history 977.448
travels 917.7448
[1] Mifflin co. Pa. history 974.846
travels 917.4846
Fort Amer. revol. 973.3337
Military and naval order of U. S. 369.113
history Amer. revol. 973.34
Mexican war 973.624
U.S. war of 1812 973.524
with Spain 973.894
order of foreign wars U.S. 369.115
of the loyal legion 369.152
society of the war of 1812 369.143
Milk, condensed 637
Mine Run, campaign U.S. civ. war 973.7353
Mining economic geology 553
Minisink American revolution 973.3353
Minnesota, admission U. S. hist. 973.68
For military history, see 973.52476, 973.7476 and 973.89476
Misrule, Spanish, in Cuba U.S. hist. 973.891
[1] Missaukee co. Mich. history 977.466
travels 917.7466
Missionary Ridge U. S. civ. war 973.7359
Mississippi, admission U.S. hist. 973 54
Mississippi river, discov. U.S. hist. 973.16
secession " 973.713
For military history of state, see subdivisions of Special campaigns and Military history under 973.52, 973.7 and 973.89
Missouri, admission U. S. hist. 973 54
compromise U.S. civ. war 973.7113
For military history of state, see subdivisions of Special campaigns and Military history under 973.52, 973.7 and 973.89
Mites zoology 595.4
Mobile bay, Ala. U.S. civ. war 973.7372
nav. history " 973.754
campaign " 973.7388
Models art study 707
[4] Modern Persian languages 491.55
Modoc indian war U. S. hist. 973.82
Mohawk valley massacre Am. rev. 973.3345
[1] Moline, Ill. history 977.339
travels 917.7339
Molino del Rey, battle Mex. war 973.6239
Monitor and Merrimac U.S. civ. w. 973 7324
naval history " 973.752
Monmouth, battle Amer. revol. 973.3342
[1] co. N. J. history 974.946
travels 917.4946
Monocacy, Md. battle U.S. civ. war 973.7369
[1] Monroe, Ind. history 977.225
travels 917.7225
[1] co. Ill. history 977.391
travels 917.7391
[1] Mich. history 977.432
travels 917.7432
[1] Pa. history 974.825
travels 917.4825
doctrine U.S. history 973.54
Montana, admission U.S. hist. 973.86
military hist. U.S. civ. war 973.7486
Spanish war 973.89486
[1] Montcalm co. Mich. history 977.453
travels 917.7453
Monterey, battle Mex. war 973.6235
[1] Montgomery co. Ill. history 977.382
travels 917.7382
[1] Ind. history 977.248
travels 917.7248
[1] Md. history 975.284
travels 917.5284
[1] Pa. history 974.812
travels 917.4812
Fort Amer. revol. 973.3335
Montgomery's Can. exped " 973.3315
Months, names of 529.2
[1] Montmorency co. Mich. history 977.483
travels 917.7483
[1] Montour co. Pa. history 974.839

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index.

Montour co. Pa. travels 917.4839
Monuments Amer. revolution 973.365
antiquities 913
U. S. civil war 973.765
[8]Moods, signs of Eng. etymology 422.8
[8] syntax Eng. language 425.8
[1]Moresnet history 949.3
travels 914.93
[1]Morgan co. Ill. history 977.346
travels 917.7346
[1] Ind. history 977.251
travels 917.7251
Morganatic marriage ethics 173.1
customs 392.6
Morgan's Ohio raid U. S. civ. war 973.7342
[1]Morris co. N. J. history 974.974
travels 917.4974
island, S. C. U. S. civ. war 973.7351
Morristown, N. J. Wash'ton h'dq'rs 973.367
Mortgage companies 332.31
Morton's Ford, Va. U. S. civ. war 973.7362
[1]Moultrie co. Ill. history 977.367
travels 917.7367
Fort, battle Amer. revol. 973.3328
Movement cure 615.82
Mowers agriculture 633
Mud architecture 693.22
island Amer. revol. 973.3337
Mule domestic animals 636.1
[1]Muncie, Ind. history 977.265
travels 917.7265
Municipal law 340
Munson shorthand 653.62
Murfreesboro, Tenn. U. S. civ. war 973.7337
Music American revolution 973.398
U. S. civil war 973.798
war of 1812 973.5298
Muskegon city, Mich. history 977.457
travels 917.7457
co. Mich. history 977.457
travels 917.7457
Muskets see Rifles
Mutiny of Penn. line Amer. revol. 973.349
Mutual insurance political econ. 334.3
Names of days of week 529.2
months 529.2
Napkins customs 394.1
Nashville, Tenn. U. S. civ. war 973.7379
Nasmith societies 267.232
National ass'n of naval veterans 369.157
bank, U. S. U. S. hist. 973.41
Naval history Amer. revol. 973.35
Mexican war 973.625
U. S. civil war 973.75
Naval history U. S. war of 1812 973.525
w. Spain 973.895
order of the U. S. 369.117
veterans, national ass'n 369.157
Navarre history 946.5
travels 914.65
Navigation acts Amer. revol. 973.3112
Nearsightedness medicine 617.75
schools 371.72
Nebraska, admission U. S. hist. 973.81
Kansas-, bill U.S.hist. 973.66
military hist. U S civ. war 973.7482
Spanish war 973.89482
Negro troops U. S. civ. war 973.7415
Negroes Y. M. C. A. 267.365
Neighborhood gilds social clubs 367
Neutrality proclamation U. S. hist. 973.43
Nevada, acquisition Mex. war 973.621
admission U. S. hist. 973.71
military hist. U.S.civ.war 973.7493
Spanish war 973.89493
[1]New Albany, Ind. history 977.219
travels 917.7219
Berne, N. C. U.S.civ.war 973.7362
[1] Brunswick, N. J. history 974.942
travels 917.4942
Eng. campaign U.S w.1812 973.5233
England 1779 Amer. revol. 973.3351
For military history of New England or its individual states, see subdivisions of Special campaigns and Military history under 973.3, 973.52, 973.7 and 973.89
New Hampshire
For military history see 973.3442, 973.7442 and 973.89442
[1]New Haven co. Ct. history 974.67
travels 917.467
Jersey
For military history, see subdivisions of Special campaigns and Military history under 973.3, 973.7 and 973.89
[1]New London co. Ct. history 974.65
travels 917.465
Market, Va. U. S. civ. war 973.7369
Mexico discov. of America 973.16
Kearney in Mex. war 973.6231
For military history, see subdivisions of Special campaigns and Military history under 973.7 and 973.89
New Orleans battle U.S. war of 1812 973.5239
capture U.S.civ. war 973.7321
nav. hist. " " 973.752
year customs 394
York city, British occupation 973.3323
evacuation 973.339
Univ. of the State of 379.747
For military history of state, see subdivisions of Special campaigns and Military history under 973.3, 973.52, 973.7 and 973.89

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index.

[1]Newaygo co. Mich. history 977.458
travels 917.7458
Newburg addresses Amer. revol. 973.349
Washington's headquarters 973.367
[1]Newcastle co. Del. history 975.11
travels 917.511
[1]Newport city, R. I. history 974.57
travels 917.457
[1] co R. I. history 974.56
travels 917.456
French fleet at Amer. revol. 973.354
Newspaper work shorthand 653.044
[1]Newton co. Ind. history 977.297
travels 917.7297
Niagara, Ft, capture U.S. war 1812 973.5234
Ninety-six, Fort, S. C. Amer. revol. 973.3373
[1]Noble co. Ind. history 977.276
travels 917.7276
Norse discovery of America 973.13
North
For military history of the North or its individual states, see subdivisions of Special campaigns and Military history under 973.3, 973.52, 973.7 and 973.89
North Carolina secession U.S. hist. 973.713
For military history, see subdivisions of Special campaigns and Military history under 973.3, 973.52, 973.7 and 973.89
North Dakota, admission U.S. hist. 973.86
history 978.4
military hist. U.S. civ. war 973.7484
Spanish war 973.89484
travels 917.84
[1]Northampton co. Pa. history 974.822
travels 917.4822
Northeast boundary treaty U.S. 973.58
Northern invasion Amer. revol. 973.3366
prisons U. S. civ. war 973.772
[1]Northumberland co. Pa. history 974.831
travels 917.4831
Northwest boundary
Oregon U.S. hist. 973.611
San Juan " 973.82
dep't of 1862 U.S. civ. war 973.7329
1863 " 973.7341
events in, 1778-79 Amer. revol. 973.3348
1779 " 973.3358
Notebooks literary methods 029.4
Notes, personal shorthand 653.041
[3]Number, signs of Eng. etymology 422.5
Numbering of pages bookmaking 655.27
Nursery food hygiene 613.22
Nurses Amer. revol. 973.376
training of 610.73
U. S. civil war 973.776
Oak botany 583.976
[1]Oakland co. Mich. history 977.438
travels 917.7438
Observatories, meteorological 551.5
[1]Ocean co. N. J. history 974.948
travels 917.4948
mails 383
Pond, Fla. U.S. civil war 973.7364
[1]Oceana co. Mich. history 977.459
travels 917.7459
Odell shorthand 653.35
Office equipment and methods 651
Official reporting shorthand 653.046
[1]Ogemaw co. Mich history 977.475
travels 917.7475
[1]Ogle co. Ill. history 977.332
travels 917.7332
Ohio, admission U.S. history 973.46
For military history, see 973.52471, 973.7471 and 973.89471
[1]Ohio co. Ind. history 977.212
travels 917.7212
Oil, vegetable chem. technology 665.3
Oilcloth manufactures 679
Oklahoma, opening U.S. hist. 973.86
Old guard, order 369.116
Olives agriculture 634
Olustee, Fla. U.S. civ. war 973.7364
Omnibus bill " history 973.63
[1]Ontonagon co. Mich. history 977.498
travels 917.7498
Opequon, Va. battle U.S. civ. war 973.7377
[1]Orange, N. J. history 974.933
travels 917.4933
associations political soc. 363
[1] co. Ind. history 977.227
travels 917.7227
Vt. history 974.36
travels 917.436
Oranges agriculture 634
Order of the founders and patriots of America 369.125
Old guard 369.116
Oregon, admission U.S. history 973.68
boundary " 973.611
military hist. U.S. civ. war 973.7495
Spanish war 973.89495
Oriskany American revolution 973.3334
[1]Orleans co. Vt. history 974.32
travels 917.432
Orphan asylums U.S. civ. war 973.7772
[1]Osceola co. Mich. history 977.469
travels 917.7469
[1]Oscoda co. Mich. history 977.478
travels 917.7478

Ostend manifesto U.S. hist. 973.66
Ostrich zoology 598.5
farms agriculture 636.9
[1]Otsego co. Mich. history 977.484
travels 917.7484
[1]Ottawa co. Mich. history 977.415
travels 917.7415
Outdoor relief charity 361
pauperism 339
[1]Owen co. Ind. history 977.243
travels 917.7243
[1]Oxford co. Me. history 974.17
travels 917.417
Pacific coast U. S. civ. war 973.7389
ocean, discov. U. S. hist. 973.16
Pages, numbering of 655.27
Palatinate, war of U. S. hist. 973.25
Palo Alto, battle Mex. war 973.6234
Pamphlet cases 025.8
Panama congress U. S. hist. 973.55
Panic, financial, 1837 " 973.57
1873 " 973.82
Panics, commercial money 332
production 338
trade 381
Panoramas amusements 791
painting 750
Paoli American revolution 973.3336
[2]Papers on special topics, see subjects
Parcel post post office 383
Paris, peace of U. S. history 973.26
treaty U. S. war with Spain 973.89
[1]Parke co. Ind. history 977.246
travels 917.7246
Paroles U. S. civil war 973.773
[1]Passaic co. N. J. history 974.923
travels 917.4923
Patent indexes literary methods 029.5
[1]Paterson, N. J. history 974.924
travels 917.4924
Patriotic societies, American 369.1
Patriots of Amer. order 369.125
Paulus Hook American revol. 973.3355
[1]Pawtucket, R. I. history 974.53
travels 917.453
Pea Ridge, Ark. U. S. civil war 973.7323
Peace conference " 973.712
efforts for " 973.712
Peacock & Epervier U.S. war of 1812 973.5255
Hornet " 973.5253
Pelican, ship " 973.5253
Pendleton civil serv. act U.S. hist. 973.84
Penguin, ship U S. war of 1812 973.5257
Peninsular campaign U.S. civ. war 973.7327
Pennsylvania
For military history, see subdivisions of Special campaigns and Military history under 973.3, 973.7 and 973.89
[1]Penobscot co. Me. history 974.13
travels 917.413
expedition Amer. revol. 973.3352
Pens writing 652
Pension act, Mex. war U. S. hist. 973.85
bill, dependent " 973.85
Pensions U. S. civil war 973.7772
People's palace self-education 374.9
[1]Peoria city, Ill. history 977.352
travels 917.7352
[1] co. Ill. history 977.352
travels 917.7352
Pequot indian war U. S. hist. 973.22
Pernin-Duployé shorthand 653.38
[1]Perry co. Ill. history 977.393
travels 917.7393
[1] Ind. history 977.229
travels 917.7229
[1] Pa. history 974.845
travels 917.4845
Perry's exped. to Japan U. S. hist. 973.66
Personal appearance costumes 391
ethics 177.4
narratives Amer. revol. 973.38
Mex. war 973.628
U. S. war 1812 973.528
w. Spain 973.898
[2] pronouns Eng. etymology 422.7
Petersburg, Va. battle U.S. civ. war 973.7365
lines, assault " 973.7373
Pew rents clerical support 254
Phallicism 291
Philadelphia, capture Amer. revol. 973.3337
co. Pa. history 974.811
travels 917.4811
evacuation Am. revol. 973.3343
expos. 1876 U.S. hist. 973.82
Philip's, King, war U.S. history 973.24
Phoebe, ship U.S. war of 1812 973.5255
Photogrammetry surveying 526.91
photography 778
Phylloxera agriculture 632
Physical cult. rooms, Y.M.C.A. 267.327
department " 267.356
director " 267.343
Physiologic chemistry zoology 591.19
[1]Piatt co. Ill. history 977.367
travels 917.7367
Pictures American revolution 973.397
U. S. civil war 973.797
war of 1812 973.5297

Pigeon holes office equipment 651
Pigmies folklore 398.4
[1]Pike co. Ill. history 977.345
travels 917.7345
[1] Ind. history 977.236
travels 917.7236
[1] Pa. history 974.824
travels 917.4824
Pillow, Fort, capture U.S. civ. war 973.7361
[1]Piscataquis co. Me. history 974.12
travels 917.412
Pistols manufacture 683
Pitman, Benn shorthand 653.5
Izaac " 653.61
Pittsburg Landing U. S. civ. war 973.7326
Pizarro discovery of America 973.16
Plane table surveying 526.96
Playgrounds school hygiene 371.74
Plymouth, settlement U. S. hist. 973.22
Mass. hist. 974.4
Poetry American revolution 973.391
U. S. war of 1812 973.5291
Polish discovery of America 973.11
Political conventions 329
history Amer. revol. 973.31
Mexican war 973.621
U. S. war of 1812 973.521
with Spain 973.891
Polygamy, Edmunds act U.S.hist. 973.84
Ponce de Leon discov. of Amer. 973 16
Pontiac, conspiracy U. S. hist. 973.27
[1]Pope co. Ill. history 977.3991
travels 917.73991
Popular sovereignty U. S. hist. 973.64
Port Hudson, La. siege " civ. war 973.7347
[1] Huron, Mich. history 977.441
travels 917.7441
Royal, S. C. U. S. civ. war 973.751
[1]Porter co. Ind. history 977.298
travels 917.7298
Portuguese discovery of America 973.16
[1]Posey co. Ind. history 977.234
travels 917.7234
Position shorthand 653.01
[3]Possessive pronouns Eng. etymol. 422.7
[3] syntax 425.7
Postal savings banks 332.2
Potentials law of attraction 531.51
Potomac, army of the U.S. civ. war 973.7416
[1]Potter co. Pa. history 974.855
travels 917.4855
Powder toilet 646
Pre-Columbian discov. of Amer. 973.11
Prepositions Eng. syntax 425.9
Presentations of flags U.S. civ. war 973.763
Presents, Christmas customs 394
President and Little Belt, U.S. hist. 973.51
inauguration, ceremonies 394.4
ship, capture war 1812 973.5257
veto power 353.03
Presidential succession act U.S. hist. 973.85
Presidents' messages 353.03
[1]Presque Isle co. Mich. history 977.482
travels 917.7482
Press clippings 029.3
agencies 029.3
writing for, literary methods 029.6
Price's Missouri exped. U.S. civ. war 973.7374
Primaries . suffrage 324
Prime meridian cosmic time 529.77
geog. coordinates 525.46
[1]Prince George co. Md. history 975.251
travels 917.5251
[1]Princeton, N. J. battle Amer. revol. 973.3326
history 974.967
travels 917.4967
Printers' marks 655.1
Prisoners of war ass'n, union 369.155
Prisons American revolution 973.37
Mexican war 973.627
U. S. civil war 973.77
war of 1812 973.527
with Spain 973.897
Privateers American revolution 973.358
U. S. civil war 973.759
war of 1812 973.5258
Proctor's creek, Va. U. S. civ. war 973.7365
Professors' salaries education 371.16
Profits capital and labor 331.1
Proof and copy lit. methods 029.6
Property, church 254
Prostration, nervous 616.843
[1]Providence co. R. I. history 974.51
travels 917.451
Psychic research mind and body 130
Public baths 613.47
documents print'g & distrib. 655.59
library classed catalogs 017.1
diction'y " 019.1
[1]Pulaski co. Ill. history 977.3998
travels 917.73998
Ind. history 977.292
travels 917.7292
[1]Putnam co. Ill. history 977.337
travels 917.7337
[1] Ind. history 977.249
travels 917.7249
Pygmies folklore 398.4

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index.

Quebec, capture U. S. history 973.26
[1]Queen Anne co. Md. history 975.234
travels 917.5234
Anne's war U. S. hist. 973.25
Queenstown, battle, U. S. war of 1812 973.5233
Quercineae botany 583.976
Questioning, art of education 371.25
Questions, books of " 371.35
Quicksilver see Mercury
[1]Quincy, Ill. history 977.344
travels 917.7344
Quotas U. S. civ. war 973.7412
[1]Rahway, N. J. history 974.938
travels 917.4938
Railroad accidents, pub. health 614.683
electric 621.33
men Y. M. C. A. 267.362
Ralegh, W. discovery of Amer. 973.17
Ram, hydraulic engineering 621.27
Ramsour Mills, N. C. Amer. revol. 973.3361
Ranch, cattle 636.2
[1]Randolph co. Ill. history 977.392
travels 917.7392
Ind. history 977.266
travels 917.7266
Range domestic economy 641
[1]Raritan, N. J. history 974.972
travels 917.4972
[3]Readers selections Eng. lang. 428.7
Reading desks office equip. 651
rooms Y. M. C. A. 267.3533
Reapers agriculture 633
Red Bank Amer. revol. 973.3337
river campaign U. S. civ. war 973.7363
expedition " 973.754
Reference, exact literary methods 029.1
Referendum political science 321.4
Reform, spelling Eng. language 421.4
Refrigerators domestic economy 643
Refuge, houses of 364
Regimental hist. U. S. civ. war 973.744-749
Regular army " 973.7411
and navy union 369.111
veterans soc. 369.112
Regulators see special subject
Reincarnation 129.4
Reindeer, ship U. S. war of 1812 973.5255
[3]Relative pronouns Eng. etymol. 422.7
[3] syntax 425.7
Relief corps, woman's 369.161
union, woman's veteran 369.162
Religion, comparative 290
Religious associations 267
life U. S. civ. war 973.778
'Renard the fox' Dutch satire 839.371
Rents, pew clerical support 254
Repairs building laws 692.9
[4]Representation 324.2
Amer. revol. 973.3114
minority 324.2
university 324.2
Republican party U. S. hist. 973.66
Resaca de la Palma, battle Mex. war 973.6234
Restaurants 643
Results of Amer. revol. U. S. hist. 973.31
Mex. war " 973.621
Spanish war " 973.891
U. S. civ. war " 973.71
war of 1812 " 973.521
Resumption of specie pay't " 973.83
Revised version Eng. Bible 220.52
New Test. 225.52
Old " 221.52
Revivals, army U. S. civ. war 973.778
Revolution, daughters of the 369.136
sons of the 369.134
Revolutionary societies 369.13
'Reynard the fox' Dutch satire 839.371
Rhode Island
For military history, see subdivisions of Special campaigns and Military history under 973.3, 973.7 and 973.89
Rhodes, knights of 929.711
[3]Rhyming dictionaries Eng. lang. 426.6
Ribault, Jean discovery of Amer. 973.18
[1]Richland co. Ill. history 977.377
travels 917.7377
[1]Richmond, Ind. history 977.263
travels 917.7263
Richmond, Va.
For military history, see subdivisions of Special campaigns under 973.7
Ringgold campaign U. S. civ. war 973.7359
Rio Grande, campaign on Mex. war 973.6234
[1]Ripley co. Ind. history 977.214
travels 917.7214
Roanoke island, N. C. U. S. civ. war 973.752
battle " 973.7324
[1]Rock Island city, Ill. history 977.339
travels 917.7339
co. Ill. history 977.339
travels 917.7339
[1]Rockford, Ill. history 977.331
travels 917.7331
[1]Rockingham co. N. H. history 974.26
travels 917.426
Roland legends 398.2
chanson de French poetry 841.11
[1]Roscommon co. Mich. history 977.476

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index.

Roscommon co. Mich. travels 917.7476
Rotation in office U. S. hist. 973.56
Rotifera zoology 595.1
Rubies economic geology 553.8
Running hygiene 613.7
sports 796
[1]Rush co. Ind. history 977.261
travels 917.7261
[1]Rutland co. Vt. history 974.37
travels 917.437
Saengerbund musical festival 784.5
[1]Sagadahoc co. Me. history 974.18
travels 917.418
[1]Saginaw city, Mich. history 977.446
travels 917.7446
[1] co. Mich. history 977.446
travels 917.7446
[1]St Clair co. Ill. history 977.389
travels 977.7389
[1] Mich. history 977.441
travels 917.7441
St Clair's expedition U. S. hist. 973.42
John of Jerusalem, knights of 929.711
[1] Joseph co. Ind. history 977.289
travels 917.7289
[1] Mich. history 977.419
travels 917.7419
[1] Mary co. Md. history 975.241
travels 917.5241
[1]Salem city, N. J. history 974.992
travels 917.4992
[1] co. N. J. history 974.991
travels 917.4991
[1]Saline co. Ill. history 977.3992
travels 917.73992
Salvation army 267.15
San Antonio, battle Mex. war 973.6238
Domingo, annex. treaty U.S. hist. 973.82
Juan boundary " 973.82
[1]Sangamon co. Ill. history 977.356
travels 917.7356
[1]Sanilac, Mich. history 977.443
travels 917.7443
Sanitary commission U.S. civ. war 973.7771
fairs " 973.7772
Santiago, siege U.S. war with Spain 973.893
Saratoga, battle Amer. revol. 973.3333
Sarcophagi burial customs 393.1
Sassacus, ship U. S. civ. war 973.754
Savannah campaign " 973.7378
capture Amer. revol. 973.3347
siege " 973.3357
Scene painting painting 750
theater 792
School Y. M. C. A. 267.361
[1]Schoolcraft co. Mich. history 977.493
travels 917.7493
[1]Schuyler co. Ill. history 977.347
travels 917.7347
Fort Amer. revol. 973.3334
[1]Schuylkill co. Pa. history 974.817
travels 917.4817
Science, applied 600
political 320
sanitary 628
Scott-Brown shorthand 653.53
Scott, Dred, case, cause U.S. civ. war 973.7115
decision slavery 326.973
U. S. hist. 973.68
[1]Scott co. Ill. history 977.345
travels 917.7345
[1] Ind. history 977.218
travels 917.7218
Scott's campaign Mex. war 973.6236
Scovil shorthand 653.37
[1]Scranton, Pa. history 974.837
travels 917.4837
Seal fishing 639
Seaside resorts hygiene 613.12
Seating capacity architecture 729.2
Secessionists in North U.S. civ. war 973.718
Secret ballot suffrage 324
service Amer. revol. 973.38
U. S. civil war 973.785
war of 1812 973.528
Sedition act U. S. history 973.44
[2]Seminaries for special topic see subject
Seminole war, 1818 U. S. hist. 973.541
1835-42 " 973.571
[2]Sentences, conditional, etc. Eng. 425.4
Serapis, ship Amer. revolution 973.355
Sermons " " 973.395
U. S. war of 1812 973.5295
Servants law 347.6
Seven days' battles U. S. civ. war 973.7327
Pines, Va. battle " 973.7327
years war U. S. history 973.26
Sewage, disposal of 628.3
Shading shorthand 653.01
Shannon, ship U. S. war of 1812 973.5253
Sharpsburg, Md. battle U.S. civ. war 973.7336
Shay's rebellion U. S. hist. 973.318
[1]Sheawasse co. Mich. history 977.425
travels 917.7425
[1]Shelby co. Ill. history 977.3798
travels 917.73798
[1] Ind. history 977.259
travels 917.7259

Shenandoah, ship U.S. civ. war 973.757
valley campaign " 973.7377
Sherman silver act U. S. hist 973.86
Sherman's march to the sea 973.7378
Shiloh, Tenn. battle U.S. civ. war 973.7326
Ships, confederate " 973.757
Shop girls labor of women 331.4
Signal service U. S. civil war 973.7417
Signatures printing 655.27
Silver act, Bland U. S. hist. 973.83
Sherma " 973.86
Voorhees " 973.87
Sizes, standards literary methods 029.1
Slaughter mountain, Va. U. S. hist. 973.7328
Slavery, causes of U. S. civ. war 973.7111
const. amendm't 342.73
" U. S. hist. 973.81
emancipation proc. " 973.714
Slaves, fugitive U. S. civil war 973.7115
Sloan shorthand 653.38
Slöjd education 371.42
Slugs zoology 594.3
[1]Snyder co. Pa. history 974.849
travels 917.4849
Social customs and manners 394
Societies, Amer. hereditary 369.1
patriotic 369.1
Society o. Christian endeavor 267.613
Soils chemical analysis 543.7
Soldiers' homes institutions 362.8
U. S. civil war 973.7772
orpnan asylums " 973.7772
schools 362.7
[1]Somerset co. Me. history 974.12
travels 917.412
[1] Md. history 975.223
travels 917.5223
[1] N. J. history 974.944
travels 917.4944
[1] Pa. history 974.879
travels 917.4879
Sons of the Amer. revolution 369.133
revolution 369.134
veterans, U.S. army, soc. of 369.165
Soto, H. de discovery of America 973.16
Sound physics 534
South
For military history of the south or its individual states, see subdivisions of Special campaigns and Military history under 973.3, 973.52 and 973.7
[1]South Bend, Ind. history 977.289
travels 917.7289
Carolina secession U.S. hist. 973.713
For military history, see subdivisions of Special campaigns and Military history under 973.3, 973.52, 973.7 and 973.89
South Dakota, admission U.S. hist. 973.86
[1] history 978.3
military hist. U.S. civ. war 973.7483
Spanish war 973.89483
travels 917.83
Mt, Md. battle U.S. civ. war 973.7336
Southern army life " 973.784
home life " 973.784
prisons " 973.771
states in Amer. revol. 973.345
Spain, treaty with U. S. history 973.43
war " " 973.89
Spanish discovery of America 973.16
misrule in Cuba U.S. hist. 973.891
succession, war of " 973.25
war " 973.89
Specie circular " 973.56
payment " 973.83
Speed shorthand 653.03
[1]Spencer co. Ind. history 977.231
travels 917.7231
Spies American revolution 973.385
international law 341.3
U. S. civil war 973.785
Spottsylvania C. H. Va. U.S. civ. war 973.7367
[1]Springfield, Ill. history 977.356
travels 917.7356
N. J. Amer. revol. 973.3365
Springtails zoology 595.71
Squadron, Atlantic U.S. civ. war 973.756
war w. Spain 973.895
Gulf U.S. civ. war. 973.756
Squadrons, confederate " 973.757
Squares, tables of 510.8
Squaring the circle geometry 513.21
Squatter sovereignty const. hist. 342.73
slavery 326.973
U. S. hist. 973.64
Standard sizes literary methods 029.1
Stanwix, Fort Amer. revol. 973.3334
Star catalogs 523.89
[1]Stark co. Ill. history 977.351
travels 917.7351
[1]Starke co. Ind. history 977.292
travels 917.7292
State capitols architecture 725.11
States' rights causes of U.S. civ. war 973.7117
Statistics see special subjects
Steeples architecture 729.35
[1]Stephenson co. Ill. history 977.333
travels 917.7333
[1]Steuben co. Ind. history 977.278
travels 917.7278
Stevens, Fort, D. C. U.S. civ. war 973.7369

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index.

Stillwater Amer. revol. 973.3333
Stolze shorthand 653.34
Stone's River, Tenn. U.S. civ. war 973.7337
Stonington, Ct. U.S. war of 1812 973.5236
Stony Point Amer. revol. 973.3354
Storms, electric 538.7
[1]Strafford co. N. H. history 974.25
travels 917.425
[1]Streator, Ill. history 977.327
travels 917.7327
Street railways political economy 388
management 656
Streets, trees in san. engineering 628.48
Students, college, in U. S. civ. war 973.715
Study furniture 651
Subterranean telegraph 654.4
Suez canal sociology 386
Suffrage, U.S. const. amendment 324.1
const. hist. 342.739
U. S. " 973.82
Sugar house prison Amer. revol. 973.372
[1]Sullivan co. Ind. history 977.241
travels 917.7241
[1] N. H. history 974.27
travels 917.427
[1] Pa. history 974.859
travels 917.4859
Sullivan's exped. Amer. revol. 973.3356
Sumner, C: assault on U. S. hist. 973.7114
Sumter, Fort, S. C. U. S. civ. war 973.7311
naval hist. " 973.7351
Sun motors engineering 621.47
Surgeons Amer. revolution 973.375
U. S. civ. war 973.775
Surrender of Burgoyne Am. rev. 973.3333
Cornwallis " 973.3375
Lee U. S. civ. war 973.7384
Survivors ass'n, confederate 369.171
[1]Susquehanna co. Pa. history 974.834
travels 917.4834
[1]Sussex co. Del. history 975.17
travels 917.517
[1] N. J. history 974.976
travels 917.4976
Sweating system laboring classes 331.8
Swindling confidence practices 174.6
[1]Switzerland co. Ind. history 977.212
travels 917.7212
Syriac text Bible 220.43
[2]Systems manuals see subject
Tables, mathematical 510.8
tide 525.69
[1]Talbot co. Md. history 975.232
travels 917.5232
Talismans 133.4
Tariff act, 1824 973.54
1828 973.55
Dingley 973.88
McKinley 973.86
Wilson 973.87
causes of U. S. civ. war 973.7118
Taverns 640
Taxation causes of Amer. revol. 973.3114
Taxes, exemption from 336.29
Taylor shorthand 653.35
Taylor's campaign Mex. war 973.6233
[1]Tazewell co. Ill. history 977.354
travels 917.7354
Tea, tax on Amer. revol. 973.3115
Tenement houses laboring classes 331.83
Tennessee, admission U. S. hist. 973.43
secession " 973.713
For military history, see subdivisions of Special campaigns and Military history under 973.5a, 973.7 and 973.89
[2]Tense signs Eng. etymology 422.8
[2]Tenses " syntax 425.8
[1]Terre Haute, Ind. history 977.245
travels 917.7245
Teutonic knights 929.713
Texas, annexation Mex. war 973.621
resolution U.S. hist. 973.58
independence " 973.56
secession " 973.713
For military history, see subdivisions of Special campaigns and Military history under 973.5a, 973.6a, 973.7 and 973.89
[2]Text bks for writ'g verse Eng. pros. 426.8
Thames, battle U S. war of 1812 973.5235
Thomas à Kempis 242.1
Thornton shorthand 653.55
Thorwald discovery of America 973.13
Ticonderoga, battle Amer. revol. 973.3314
capture U. S. hist. 973.26
evacuation Am. rev. 973.3332
[1]Tioga co. Pa. history 974.856
travels 917.4856
Tippecanoe, battle U.S. war of 1812 973.51
[1] co. Ind. history 977.295
travels 917.7295
[1]Tipton co. Ind. history 977.255
travels 917.7255
Tobacco manufacture 679
[1]Tolland co. Ct. history 974.64
travels 917.464
Tories American revolution 973.314
Toys amusements 793
Trade depressions commerce 381
money 332
production 338

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index.

[3]Training in special topics see subject
Traitors American revolution 973.381
Transmission of electric power 537.84
Treason American revolution 973.381
[3]Treatises on special topics see subject
Treaty, Bering sea U. S. hist. 973.86
Hawaiian " 973.86
Paris U.S. war with Spain 973.89
peace American revol. 973.317
San Domingo 973.82
with Spain U. S. history 973.43
Trees forestry 634.9
Trent affair U. S. civil war 973.751
Trenton, N. J. battle Amer. revol. 973.3326
[1] history 974.966
travels 917.4966
Trepassey, ship Amer. revol. 973.357
Troops American revolution 973.34
Mexican war 973.624
U. S. war of 1812 973.524
with Spain 973.894
Trumbull, ship Amer. revol. 973.356
Trusts monopolies 338.8
Tryon in Conn. Amer. revol. 973.3351
Tullahoma, Tenn. U. S. civ. war 973.7342
Tupelo, Miss. battle U.S. civ. war 973.7372
[1]Tuscola co. Mich. history 977.445
travels 917.7445
'Underground railway' slavery 326.973
U.S. civ. war 973.7115
[1]Union co. Ill. history 977.3995
travels 917.73995
[1] Ind. history 977.262
travels 917.7262
[1] N. J. history 974.936
travels 917.4936
[1] Pa. history 974.848
travels 917.4848
prisoners of war ass'n 369.155
veterans union 369.154
Unionists in south U. S. civ. war 973.717
United colonies New Eng. U.S. hist. 973.23
United States bank U.S. hist. 973.56
daughters 1776-1812 soc. 369.142
hereditary societies 369.1
national bank U.S. hist. 973.41
patriotic societies 369.1
ship U.S. war of 1812 973.5251
war of 1812, society 369.141
military soc. 369.143
Units electrical 537.7
physical 530.8
University extension 378.13
of the State of New York 379.747
[3]Use of words Eng. philology 428.3
Utah, acquisition result Mex. war 973.621
admission U. S. hist. 973.87
military hist. U.S. civ war 973.7492
war w. Spain 973.89492
[3]Utility of special subjects see subject
Valley Forge Amer. revol 973.3341
Valuation assessment of taxes 336.29
Value political economy 330.1
[1]Van Buren co. Mich. history 977.413
travels 917.7413
[1]Vanderburg co. Ind. history 977.233
travels 917.7233
Vasquez de Coronado discov. Amer. 973.16
[1]Venango co. Pa. history 974.896
travels 917.4896
Venezuela boundary U. S. hist. 973.87
Vera Cruz, battle Mex. war 973.6237
[3]Verbal inflection 425.18
Verbatim reporting shorthand 653.046
[1]Vermilion co. Ill. history 977.365
travels 917.7365
[1] Ind. history 977.246
travels 917.7246
Vermont, admission U. S. his 973.41
For military history, see subdivisions of Special campaigns and Military history under 973.3, 973.7 and 973.89
Verrazano, G. da discov. of Amer. 973.18
[3]Verse, text books for writing 426.8
Vespucci, Amerigo discov. of Amer. 973.16
Veteran relief union, woman's 369.162
Veterans ass'n, confederate 369.172
national ass'n of naval 369.157
regular army and navy, soc. 369.112
union, Union 369.154
U.S. army, society of sons of 369.165
Vicksburg, nav. hist. U. S. civ. war 973.753
siege " 973.7344
[1]Vigo co. Ind. history 977.245
travels 917.7245
Vincennes, Ind. Amer. revol. 973.3348
Vindications " 973.38
U. S. war of 1812 973.528
Virgin Islands history 971.97
travels 917.197
Virginia, British in Amer. revol. 973.3374
secession U. S. hist. 973.713
For military history, see subdivisions of Special campaigns and Military history under 973.3, 973.52, 973.7 and 973.89
[1]Virginia, West history 975.4
travels 917.54
For military history, see subdivisions of Special campaigns and Military history under 973.52, 973.7 and 973.89
Virginius incident U. S. hist. 973.82

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index.

Visitations English heraldry 929.726
[2]Voice signs Eng. etymology 422.8
Volunteers U. S. civ. war 973.7412
society of loyal 369.153
Voodooism 133.4
Voorhees silver act U. S. hist. 973.87
Voting machines suffrage 324
[1]Wabash co. Ill. history 977.378
travels 917.7378
[1] Ind. history 977.283
travels 917.7283
Wagner, Battery, S. C. U.S. civ. war. 973.7351
[1]Waldo co. Me. history 974.15
travels 917.415
Walker's filibuster exped. U.S. hist. 973.66
Nicaragua " 972.85
Walking matches amusements 796
Wall papers decoration 745
manufacture 676
paper hanging 698.6
War of 1812, society 369.141
[1]Warren, Ill. history 977.341
travels 917.7341
[1] co. Ind. history 977.296
travels 917.7296
N. J. history 974.978
travels 917.4978
[1] Pa. history 974.867
travels 917.4867
[1]Warrick co. Ind. history 977.232
travels 917.7232
Washington, city, D.C. burning 973.5238
capital of U.S. 973.44
[1] co. Ill. history 977.388
travels 917.7388
[1] Ind. history 977.222
travels 917.7222
[1] Me. history 974.14
travels 917.414
[1] Md. history 975.291
travels 917.5291
[1] Pa. history 974.882
travels 917.4882
[1] R. I. history 974.59
travels 917.459
[1] Vt. history 974.34
travels 917.434
Fort Amer. revol. 973.3324
headquarters " 973.367
state, admission U.S. hist. 973.86
milit. hist. U.S. civ. war 973.7497
Spanish war 973.89497
[1]Washtenaw co. Mich. history 977.435
travels 917.7435
Wasp and Frolic U.S. war of 1812 973.5251
Reindeer " 973.5255
Water filters hygiene 613.35
glass chem. tech. 666.1
preservative 691.1
pub. health 614.841
pipes hydraulics 532.54
sanitary engineering 628.15
Waters, mineral, artificial 663.6
Watt, ship Amer. revol. 973.356
Waxhaws, N. C " 973.3361
Wayne, A. " 973.3354
[1] co. Ill. history 977.3792
travels 917.73792
[1] Ind. history 977.263
travels 917.7263
[1] Mich. history 977.433
travels 917.7433
[1] Pa. history 974.823
travels 917.4823
Wayne's expedition U.S. hist. 973.43
Webster and Hayne debate " 973.561
Week, names of days of 529.2
[1]Wells co. Ind. history 977.272
travels 917.7272
Welsh discovery of America 973.14
[1]West Bay City, Mich. history 977.447
travels 917.7447
[1] New Jersey history 974.95
travels 917.495
Virginia admission U.S. hist. 973.71
history 975.4
travels 917.54
For military history, see subdivisions of Special campaigns and Military history under 973.7 and 973.89
Western territory, cession to U. S. 973.318
[1]Westmoreland co. Pa. history 974.881
travels 917.4881
[1]Wexford co. Mich. history 977.467
travels 917.7467
Whig party U. S. hist. 973.56
Whisky insurrection " 973.43
ring " 973.82
tax 336.27
White ants insects 595.73
[1]White co. Ill. history 977.396
travels 917.7396
[1] Ind. history 977.293
travels 917.7293
[1] Mts, N. H. history 974.22
travels 917.422
Plains, battle Amer. revol. 973.3324
[1]Whiteside co. Ill. history 977.335
travels 917.7335

[1]Whitley co. Ind. history 977.275
travels 917.7275
[1]Wicomico co. Md. history 975.225
travels 917.5225
Wiesbaden history 943.58
travels 914.358
Wigs customs 391.5
Wilderness, Va. battle U.S.civ.war 973.7366
[1]Wilkes-Barré, Pa. history 974.833
travels 917.4833
[1]Will co. Ill. history 977.325
travels 917.7325
William's, King, war U. S. hist. 973.25
Williams shorthand 653.44
[1]Williamson co. Ill. history 977.3993
travels 917.73993
Wills genealogy 929.3
[1]Wilmington, Del. history 975.12
travels 917.512
Wilmot proviso causes U.S.civ.war 973.7113
slavery 326.973
Wilson tariff act U. S. hist. 973.87
Wilson's raid " civ.war 973.7387
Winchester, Va. battle " " 973.7377
[1]Windham co. Ct. history 974.64
travels 917.464
[1] Vt. history 974.39
travels 917.439
[1]Windsor co. Vt. history 974.36
travels 917.436
[1]Winnebago co. Ill. history 977.331
travels 917.7331
Wire manufacture 672
Wisconsin, admission U. S. hist. 973.61

For military history, see subdivisions of Special campaigns and Military history under 973.52, 973.7 and 973.89

Witchcraft in New England 973.25
Woman's relief corps 369.161
veteran relief union 369.162
Women's Christian associations 267.432
religious societies 267.4
Wood working manufactures 674
[1]Woodford co. Ill. history 977.353
travels 917.7353
[1]Worcester co. Md. history 975.221
Worcester co. Md. travels 917.5221
[3]Words, arrangement of, Eng. philol. 425.3
Writing for the press lit. methods 029.6
materials 652
Wyoming, admission U. S. hist. 973.86
military hist. U.S.civ.war 973.7487
war w. Spain 973.89487
[1] co. Pa. history 974.835
travels 917.4835
massacre Amer. revol. 973.3344
[1]York co. Me. history 974.19
travels 917.419
[1] Pa. history 974.841
travels 917.4841
Yorktown, Va. siege Amer. revol. 973.3375
U.S.civ.war 973.7327
Young, reading of 028.5
Young Men's Christian Assoc'n 267.3
Y. M. C. A. buildings 267.32
committees, special 267.35
standing 267.334
conferences 267.349
departments 267.35
extension 267.31
field and limits 267.31
general secretary 267.341
history 267.39
institutes 267.348
librarian 267.342
local work by dep'ts 267.35
managers 267.333
membership 267.335
objects 267.31
officers, salaried 267.34
train'g 267.345
unsalaried 267.333
organization 267.33
periodicals 267.39
physical director 267.343
reports 267.39
training officers 267.345
work w. special classes 267.36
Young men's Christian unions 267.233
Young people's religious societies 267.6
soc. of Chr. endeavor 267.613
Young Women's Christian Ass'n 267.5

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index.